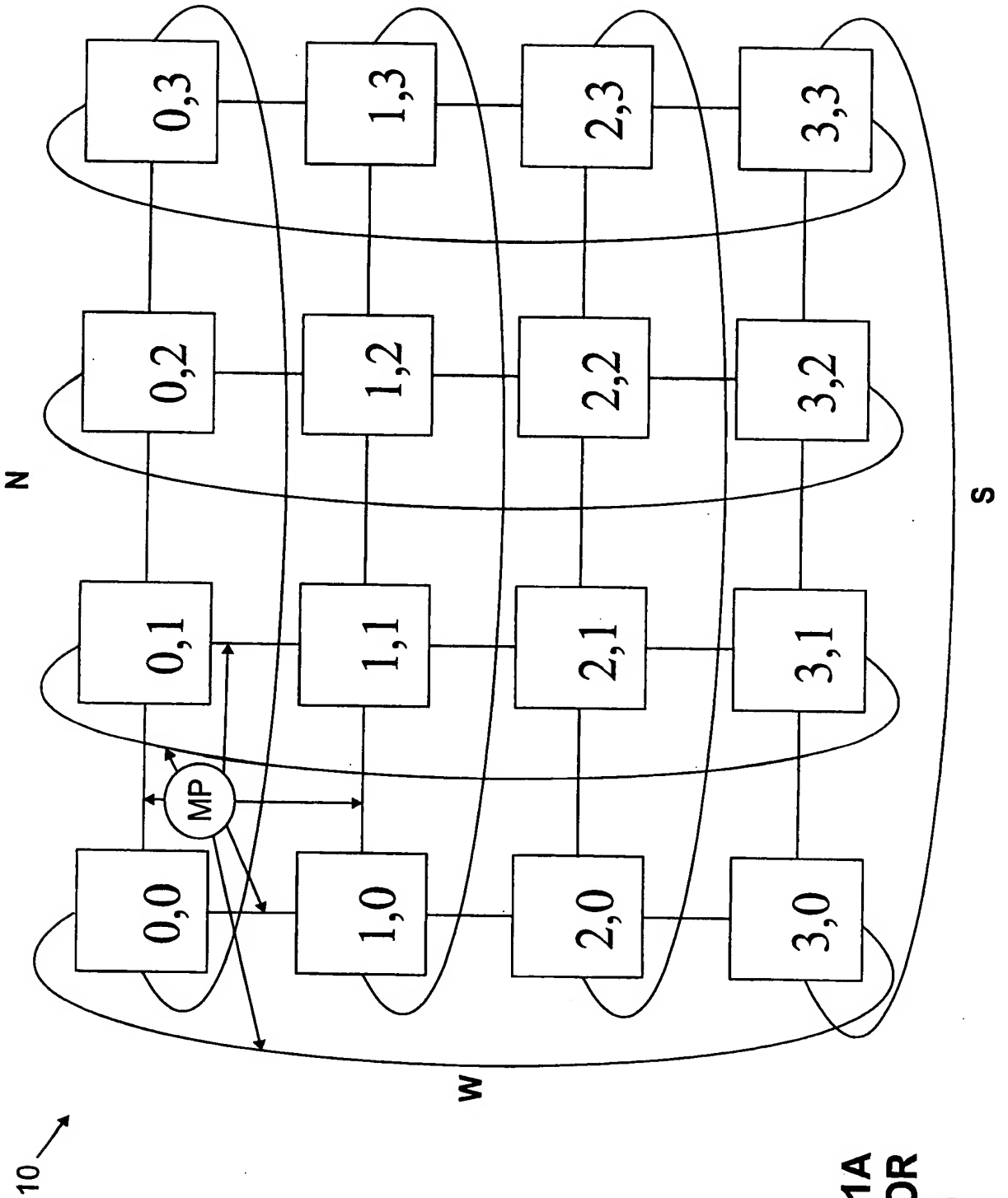


E

4X4 TORUS

FIG. 1A
(PRIOR
ART)

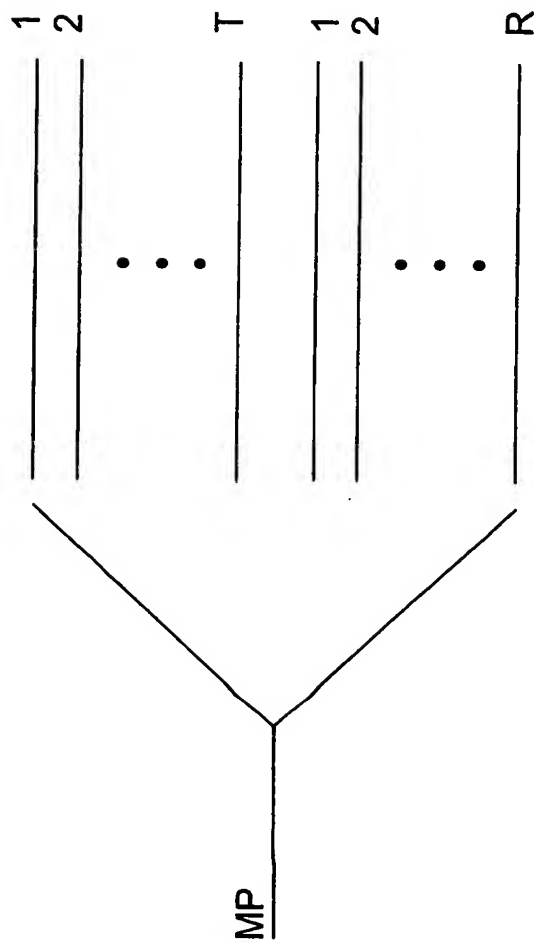


FIG. 1B
(PRIOR ART)

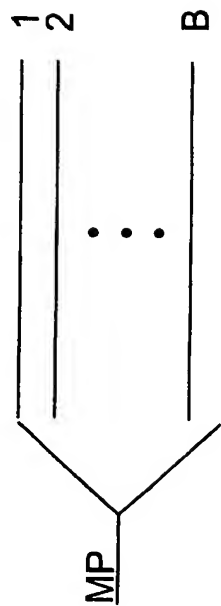
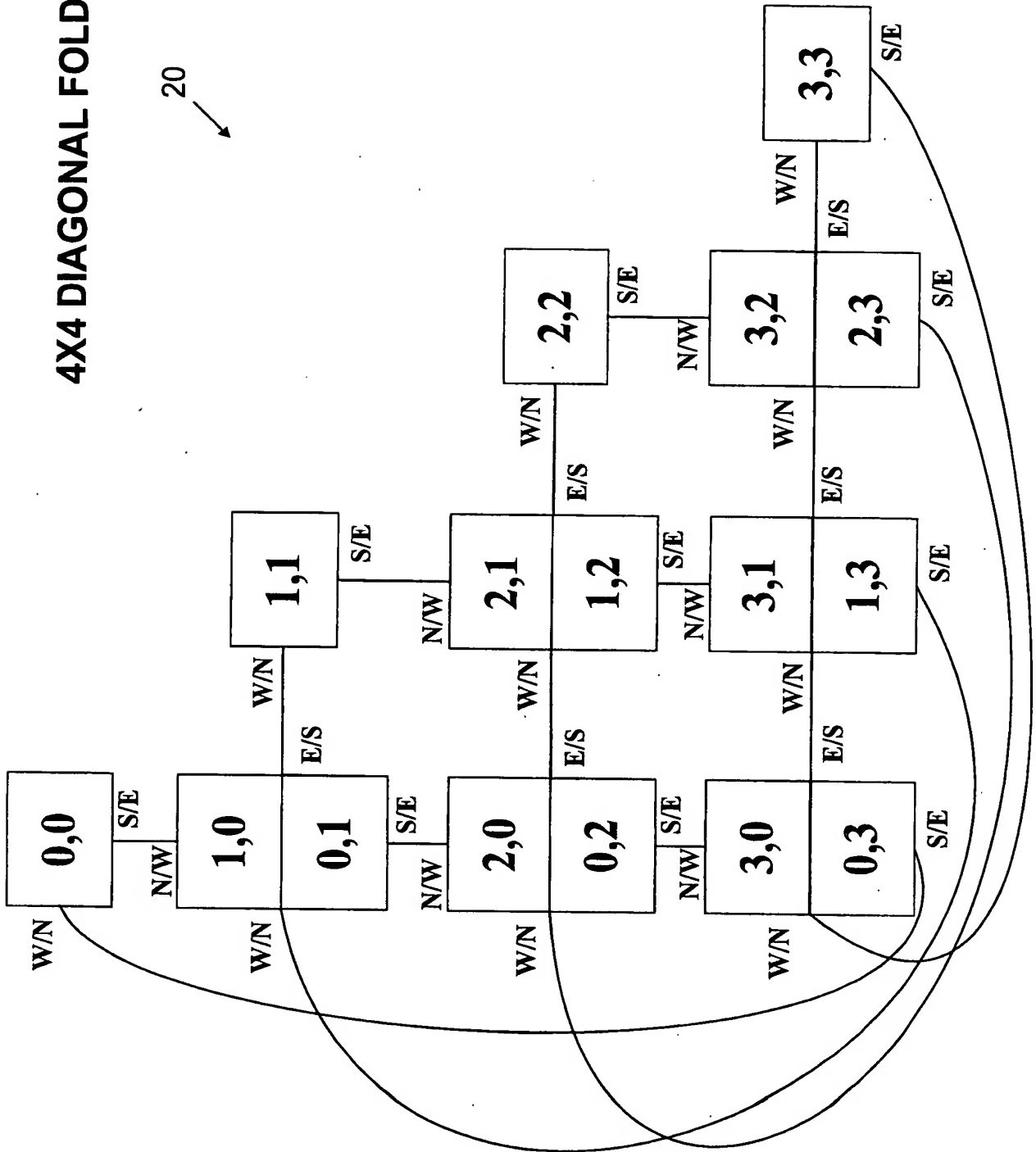


FIG. 1C
(PRIOR ART)

20



**FIG. 2
(PRIOR
ART)**

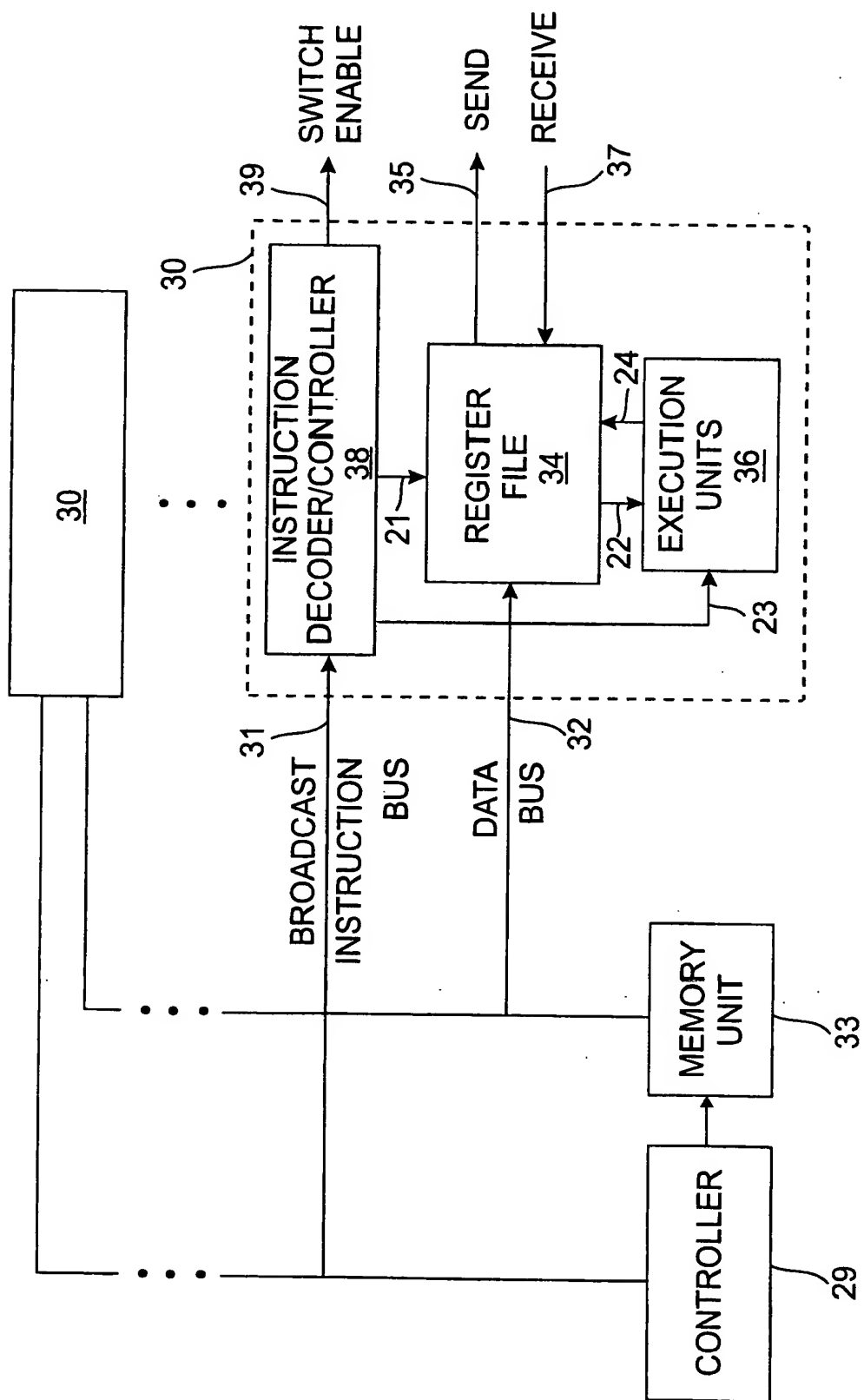


FIG. 3A

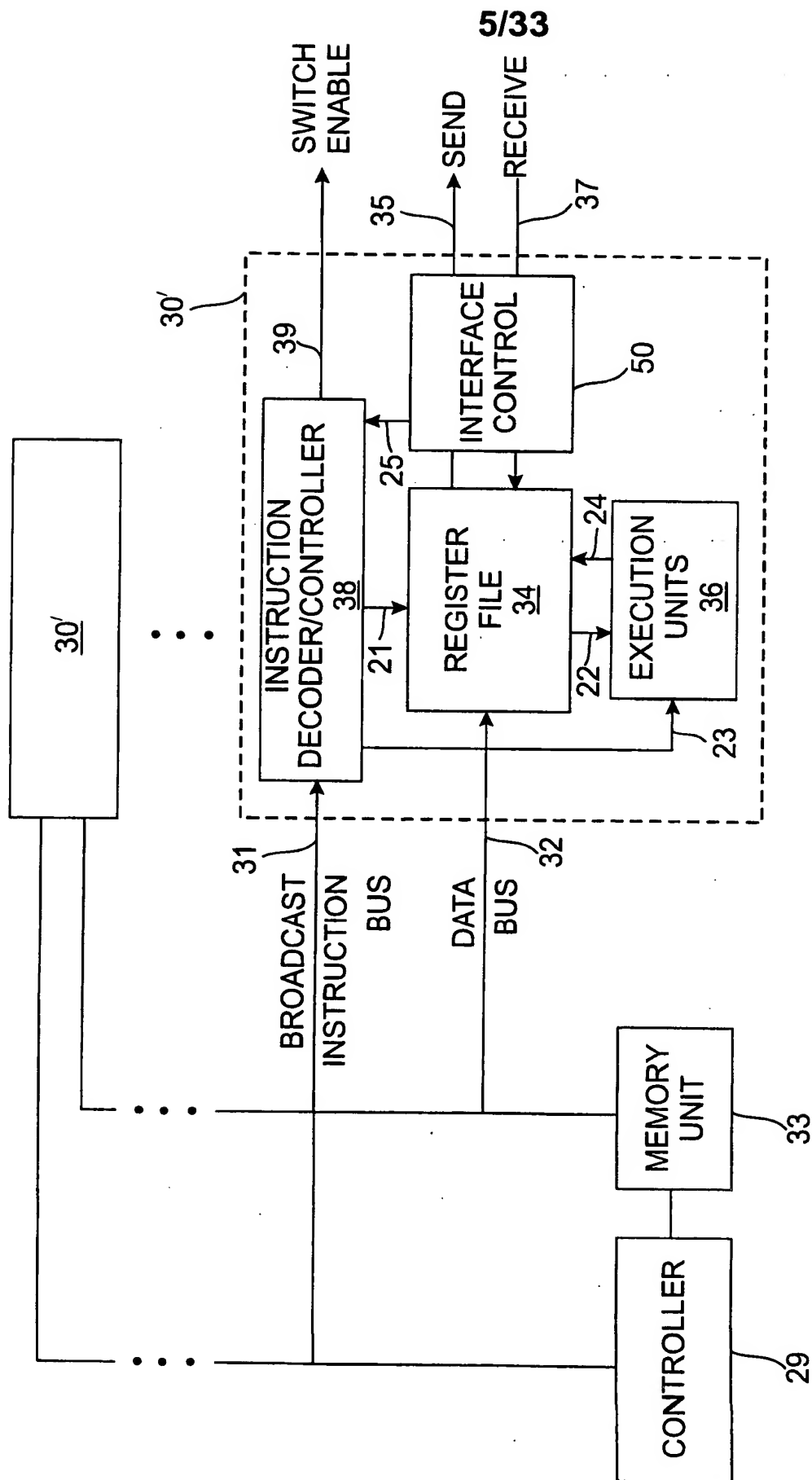


FIG. 3B

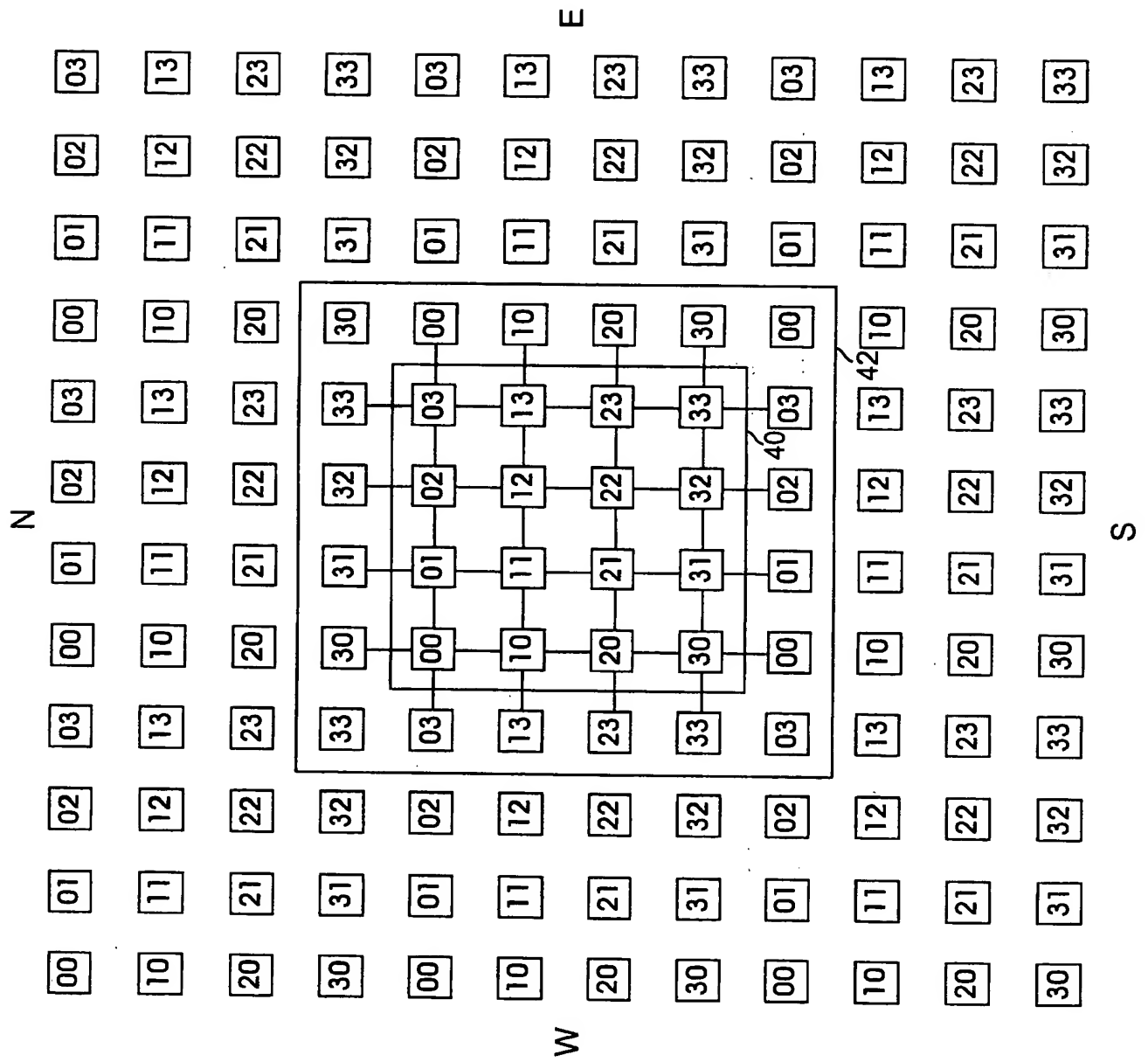


FIG. 4

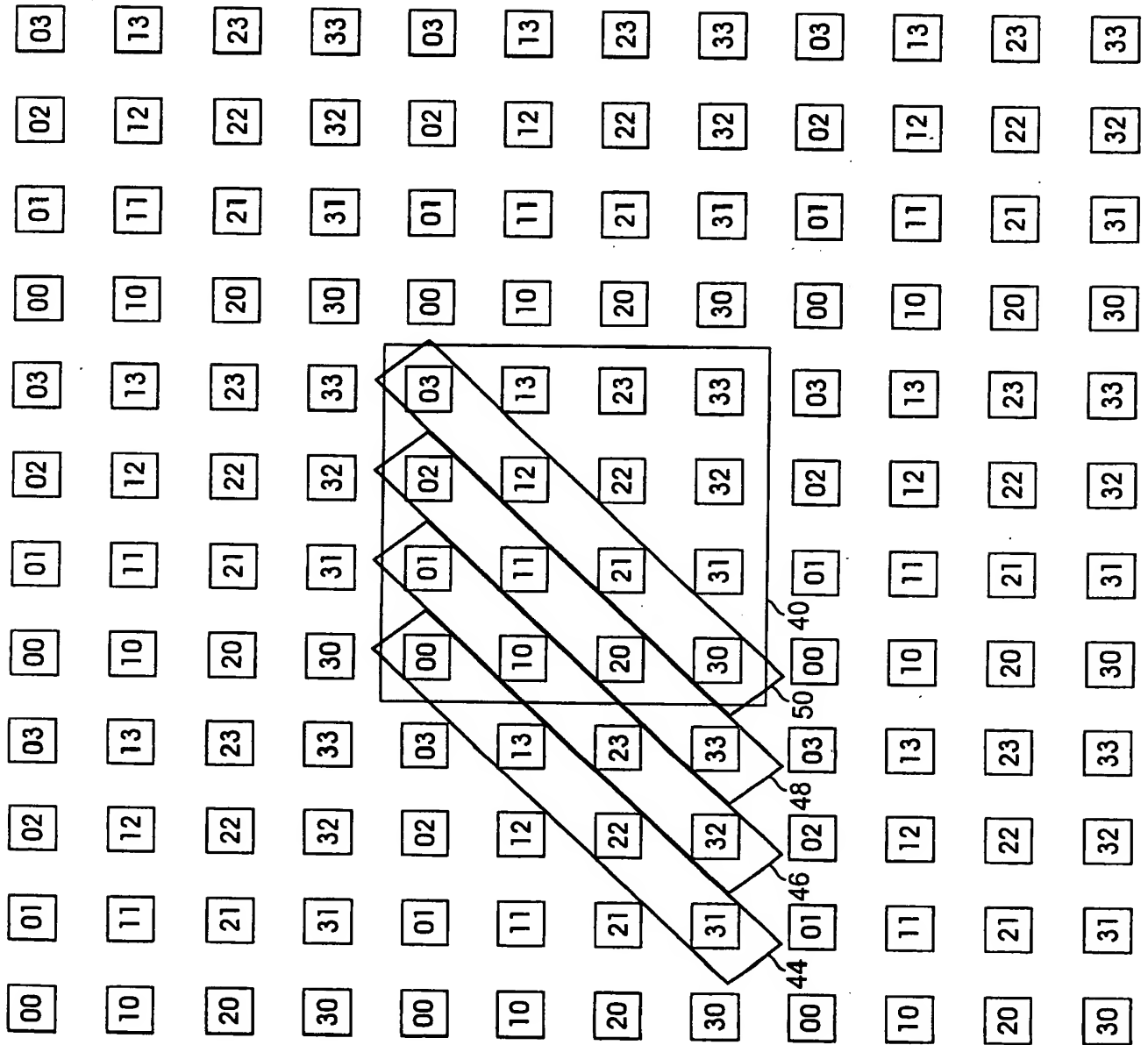


FIG. 5A

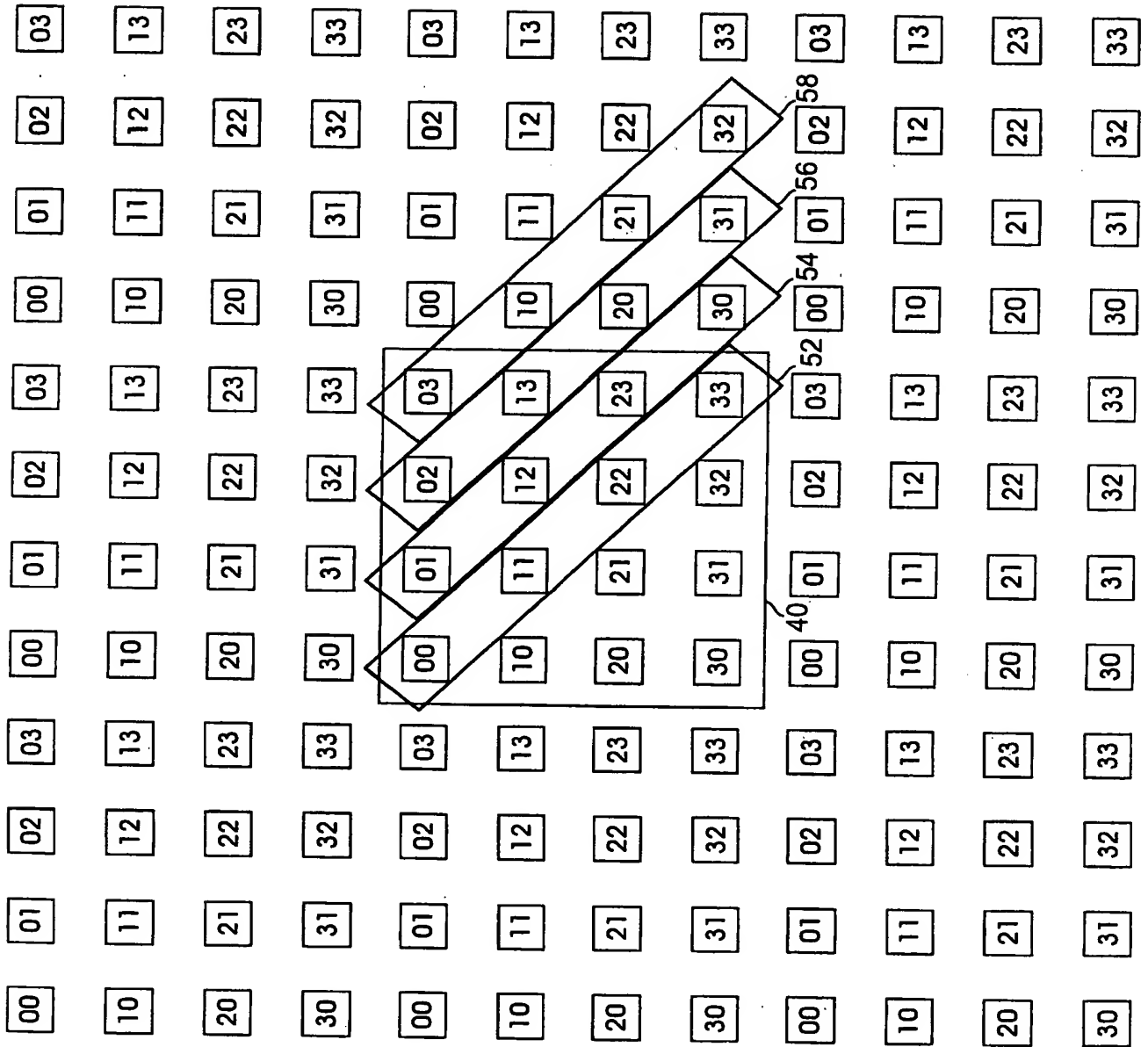


FIG. 5B

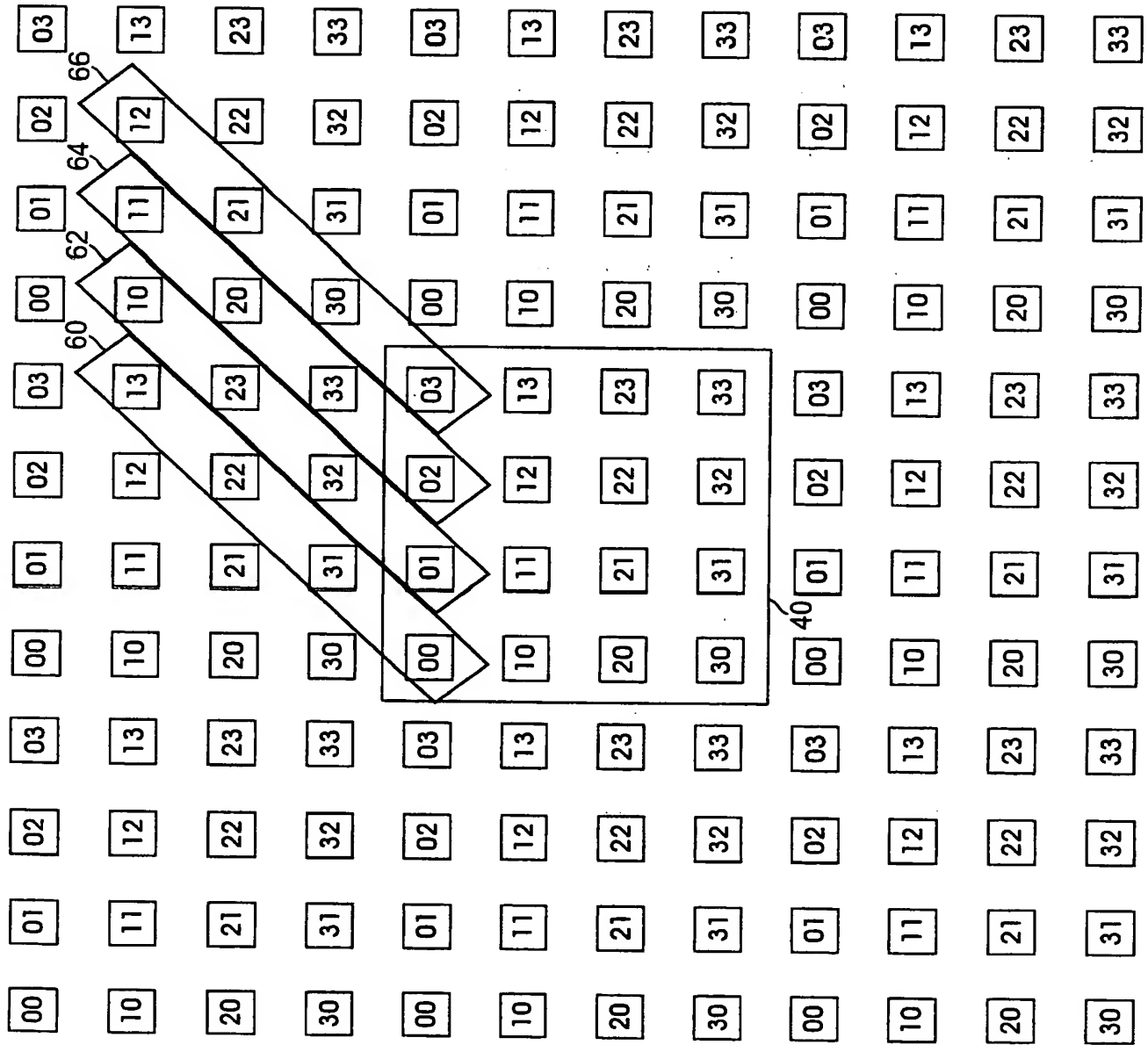


FIG. 5C

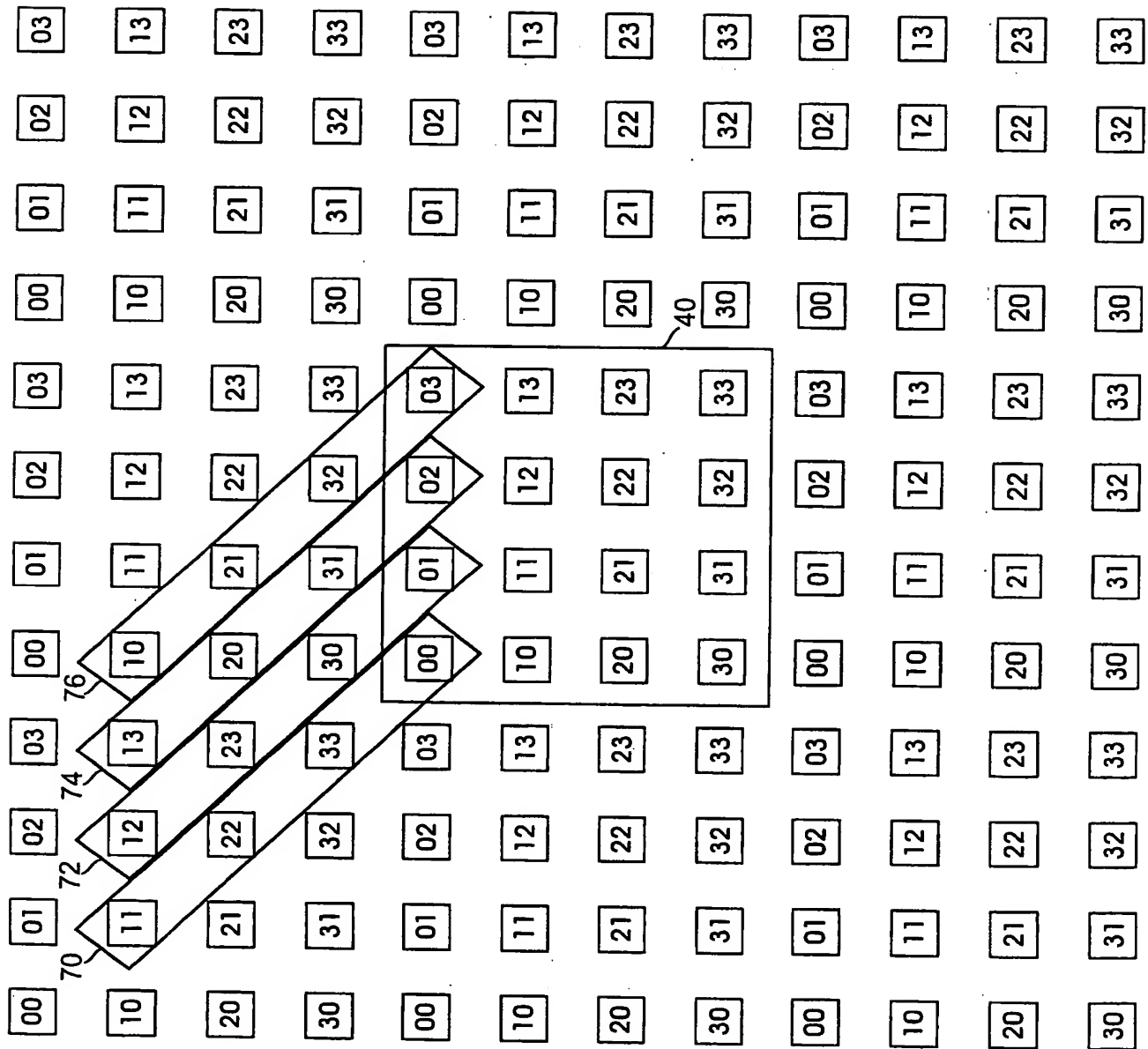


FIG. 5D

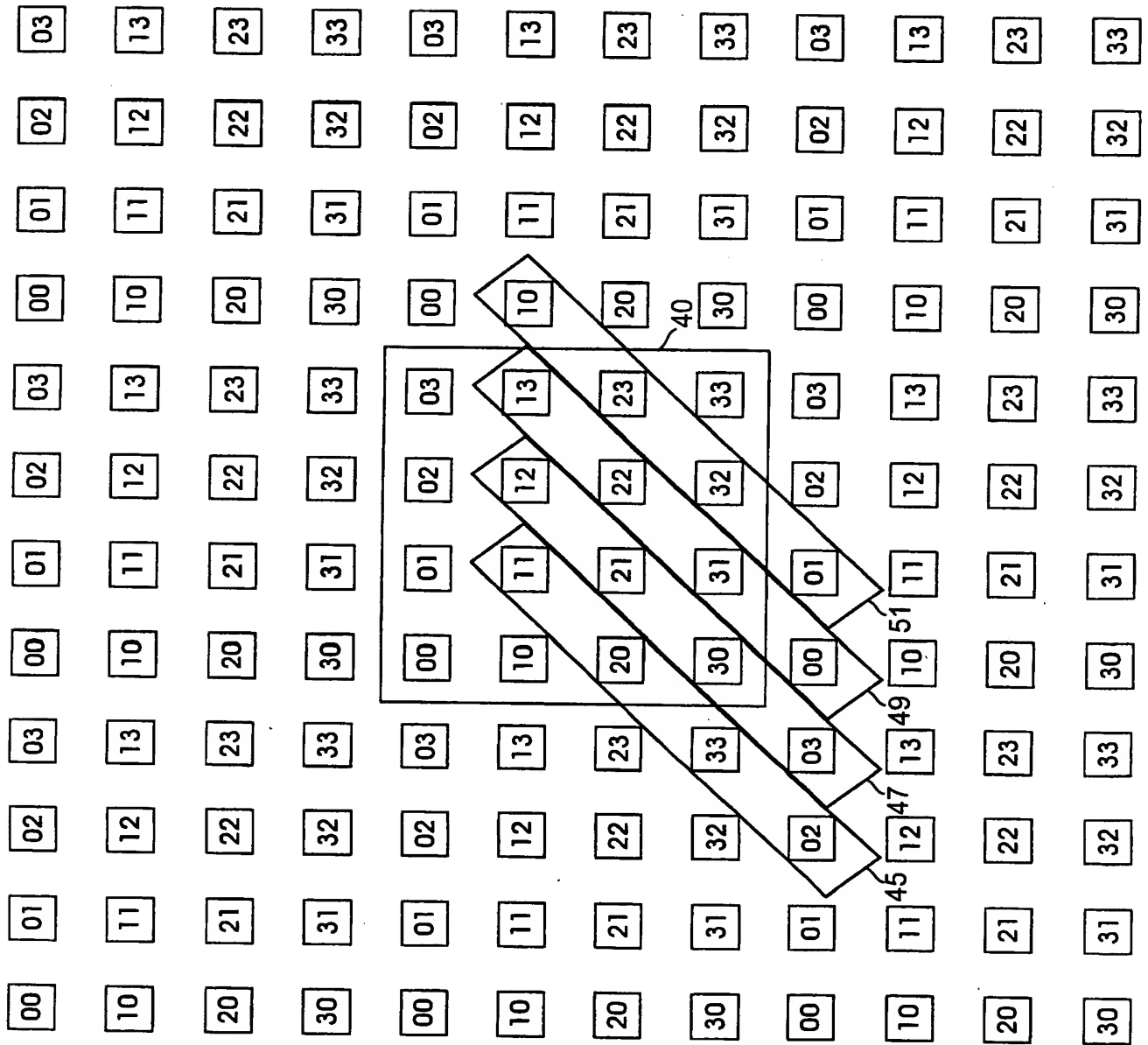


FIG. 5E



FIG. 5F

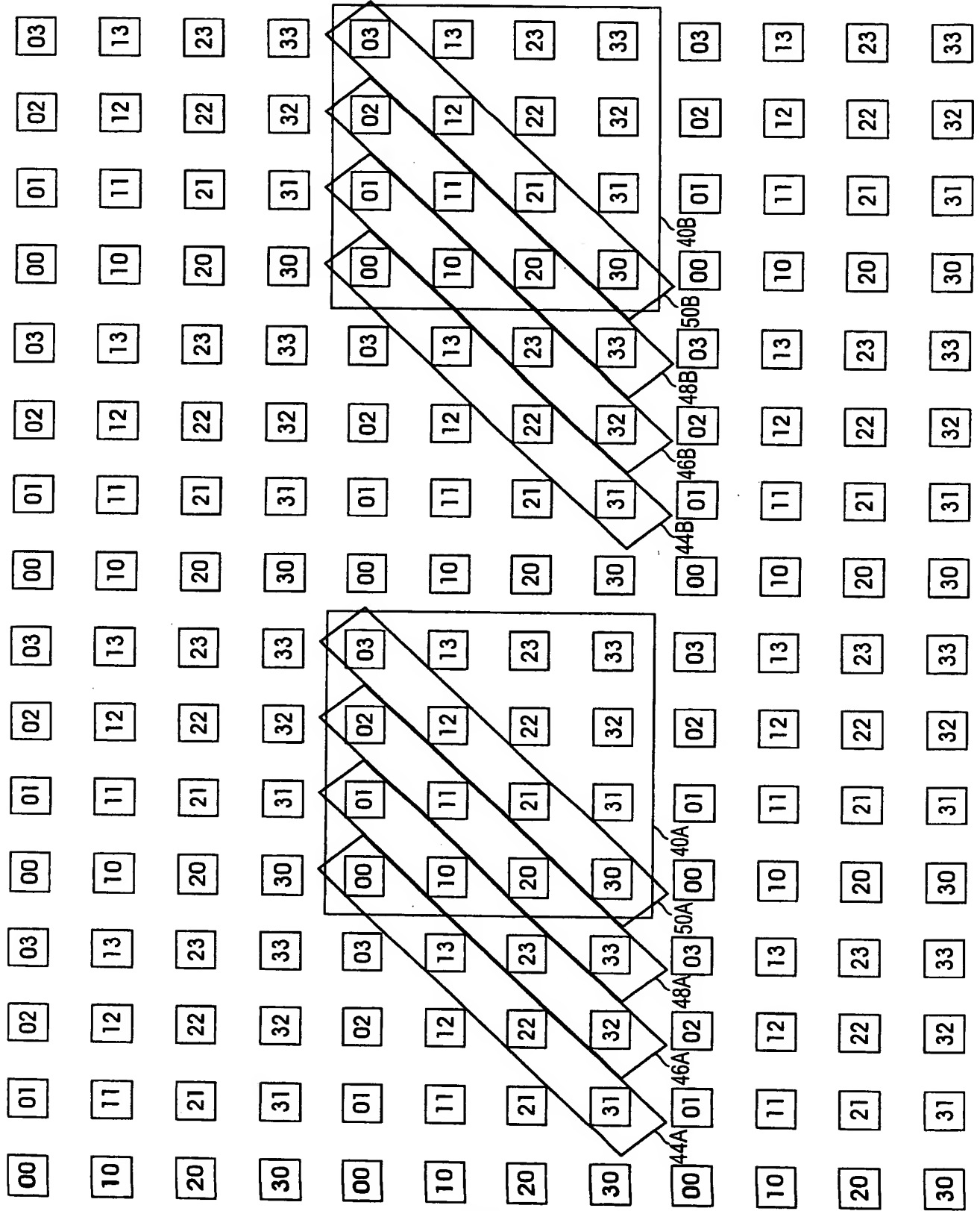


FIG. 5G

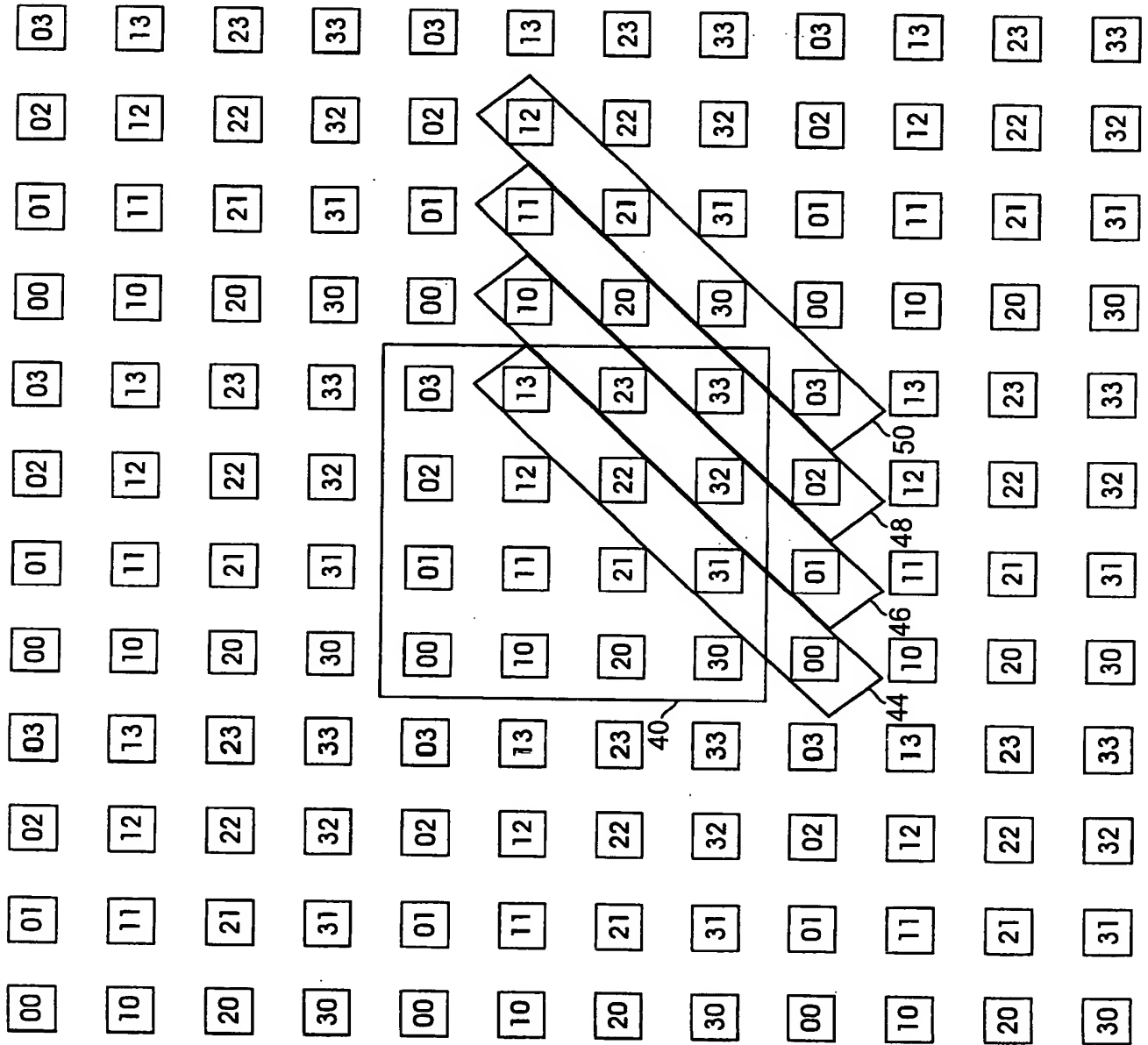


FIG. 6

00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22

FIG. 7

00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24

FIG. 8

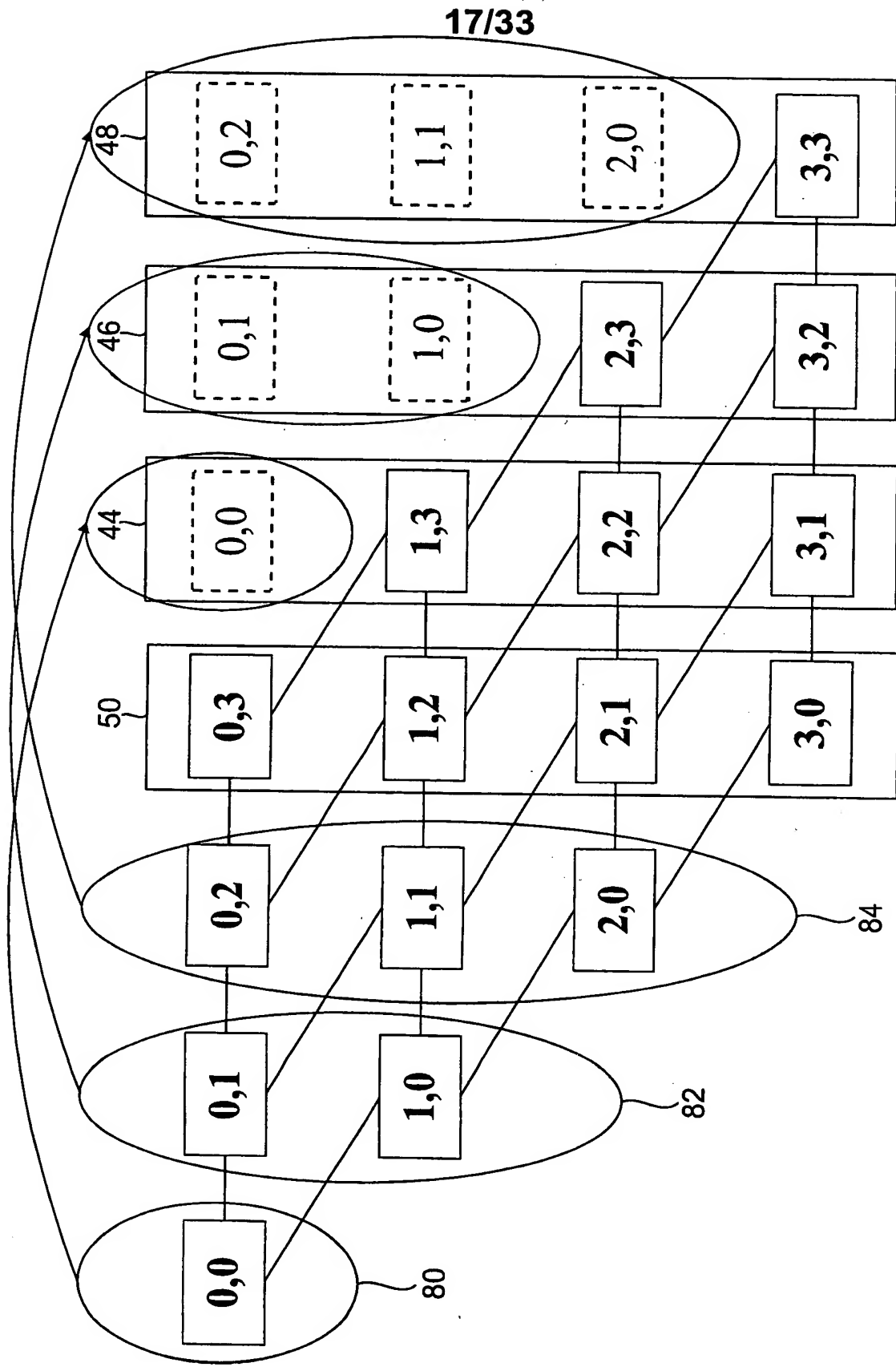


FIG. 9

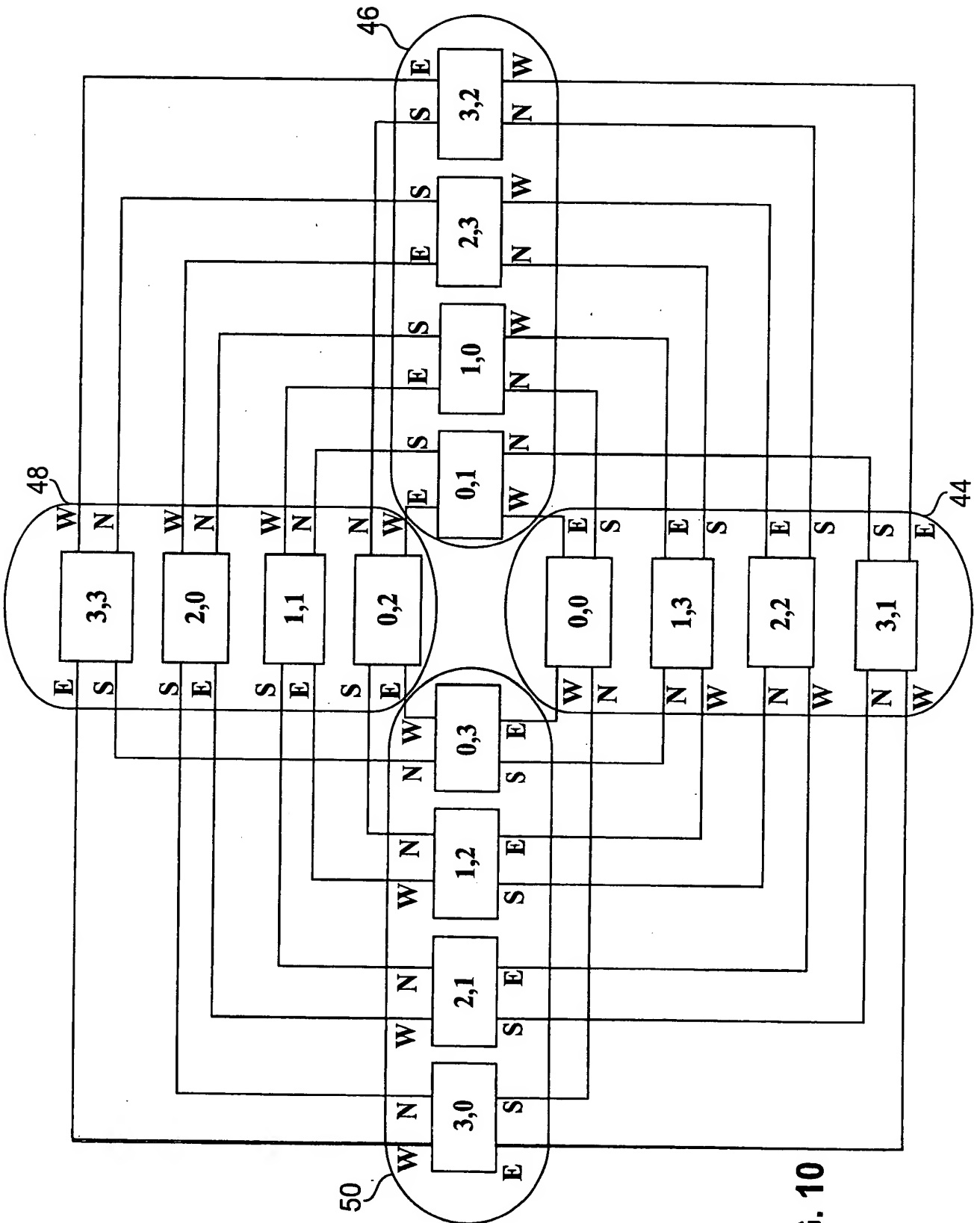
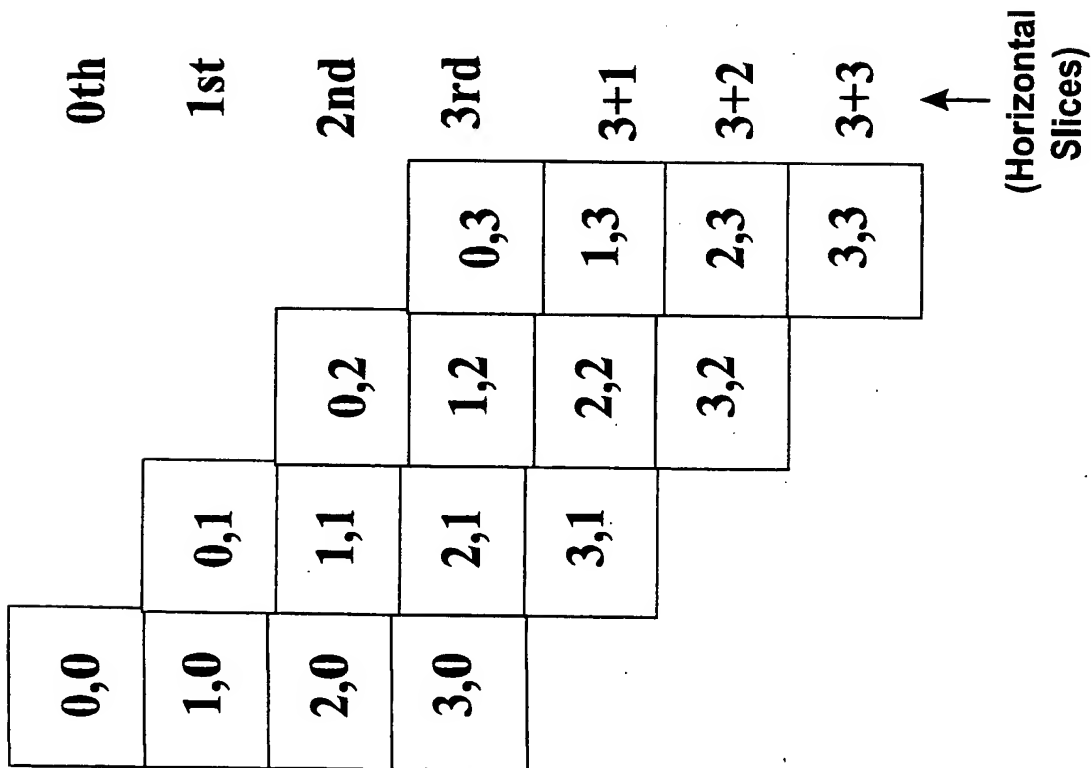
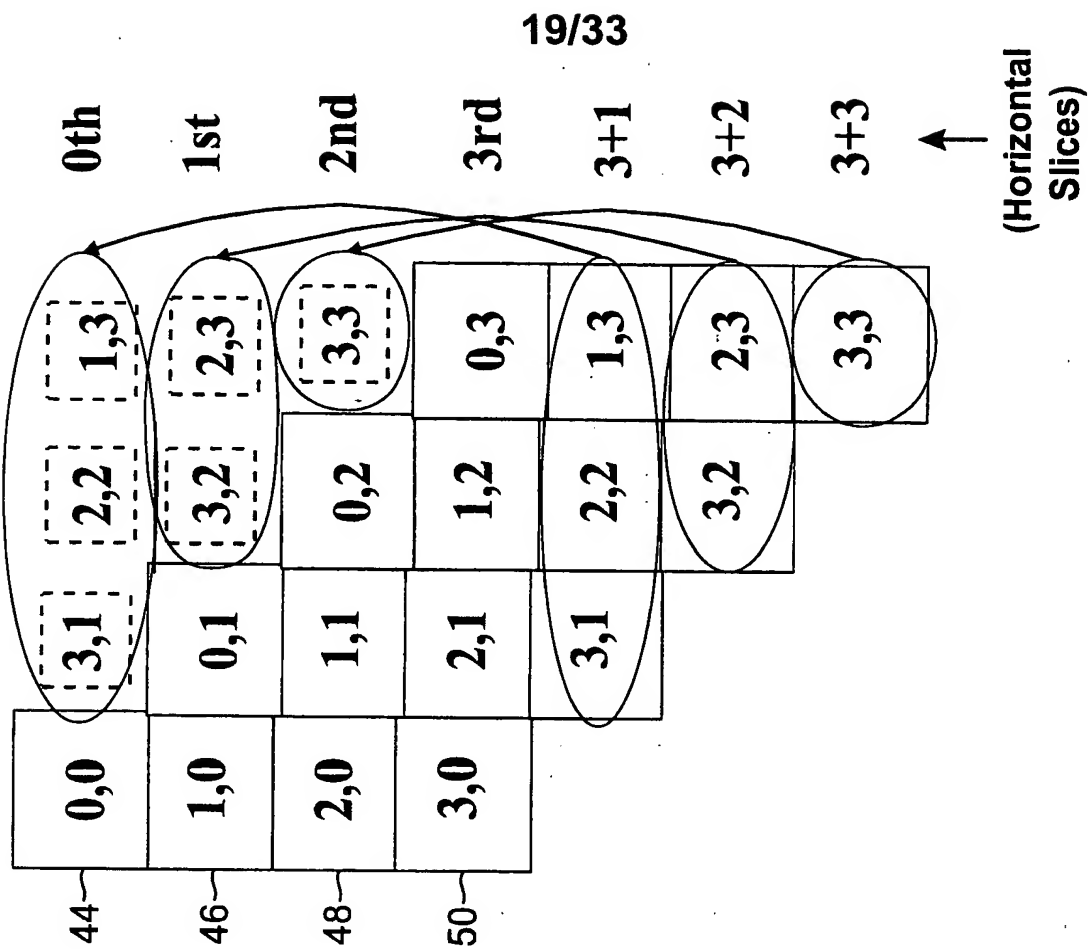


FIG. 10



4x4 Rhombus

FIG. 11A



4x4 Rhombus

FIG. 11B



FIG. 12

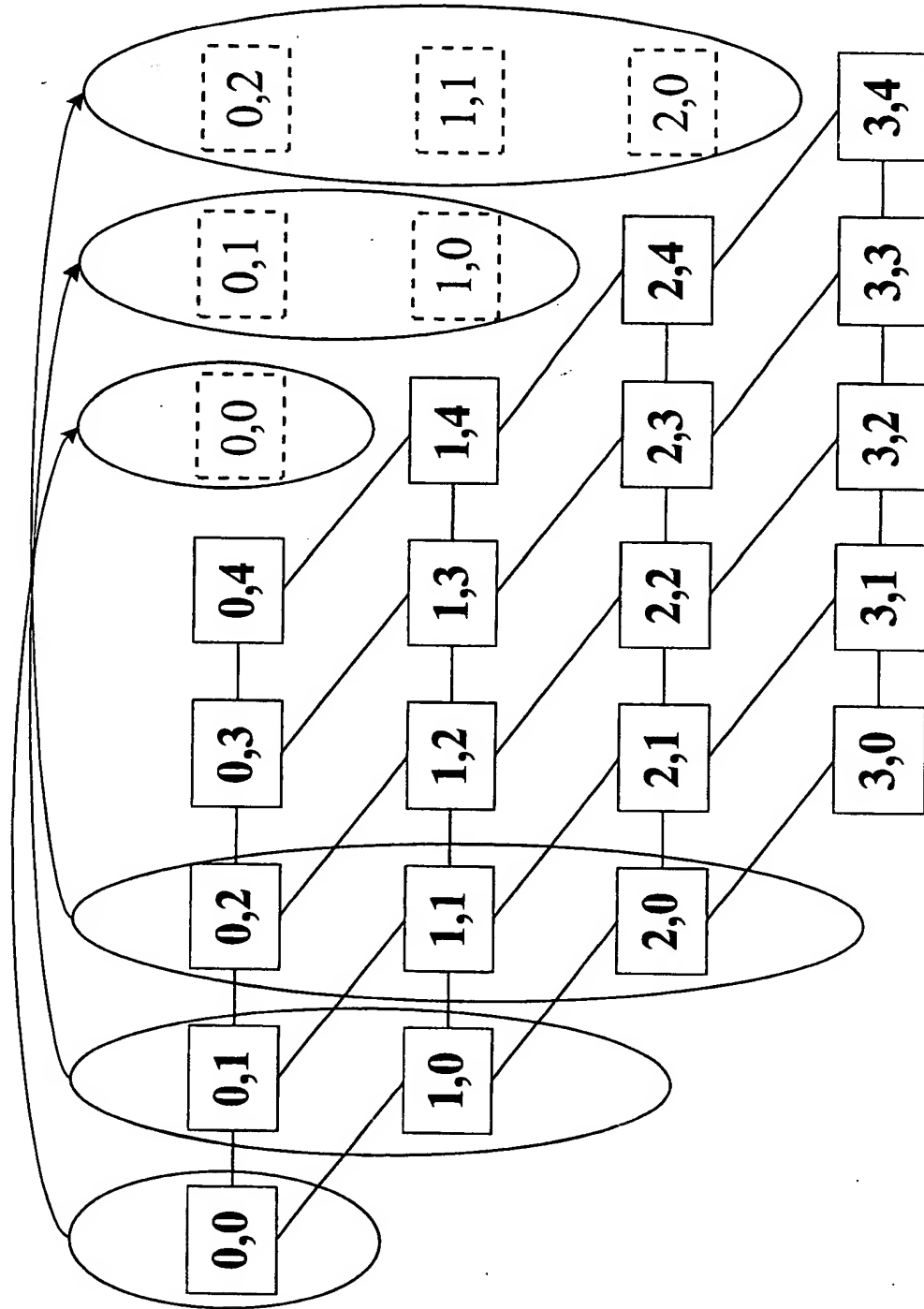


FIG. 13

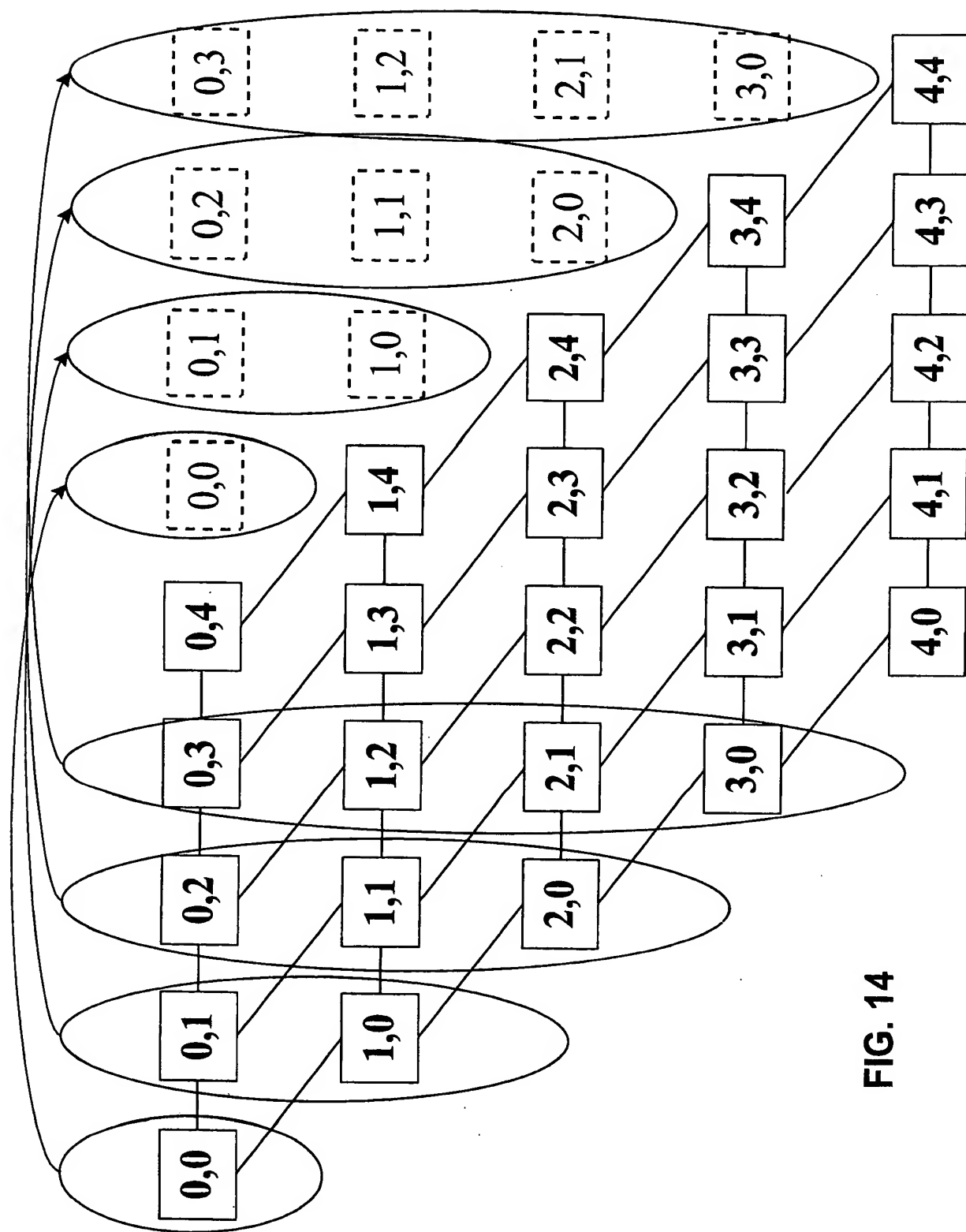


FIG. 14

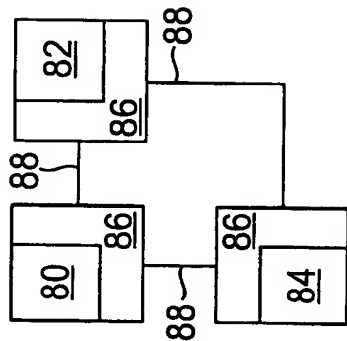


FIG. 15A

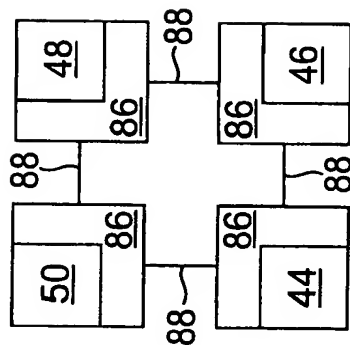


FIG. 15B

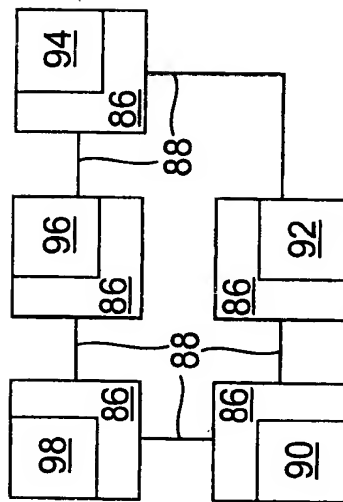


FIG. 15C

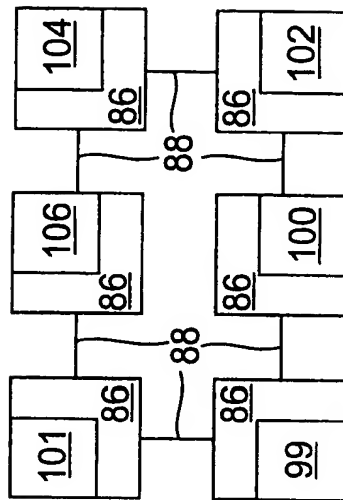
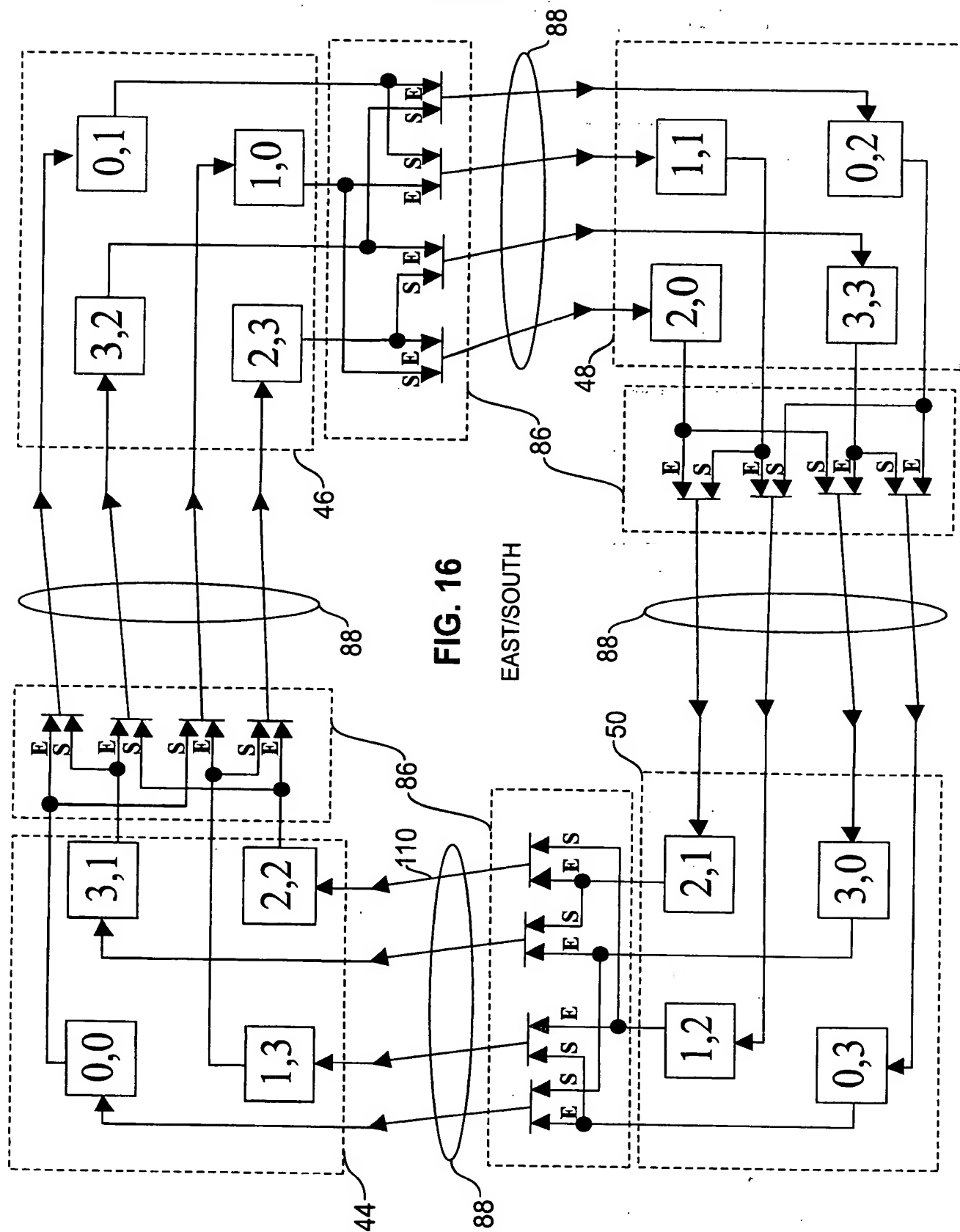
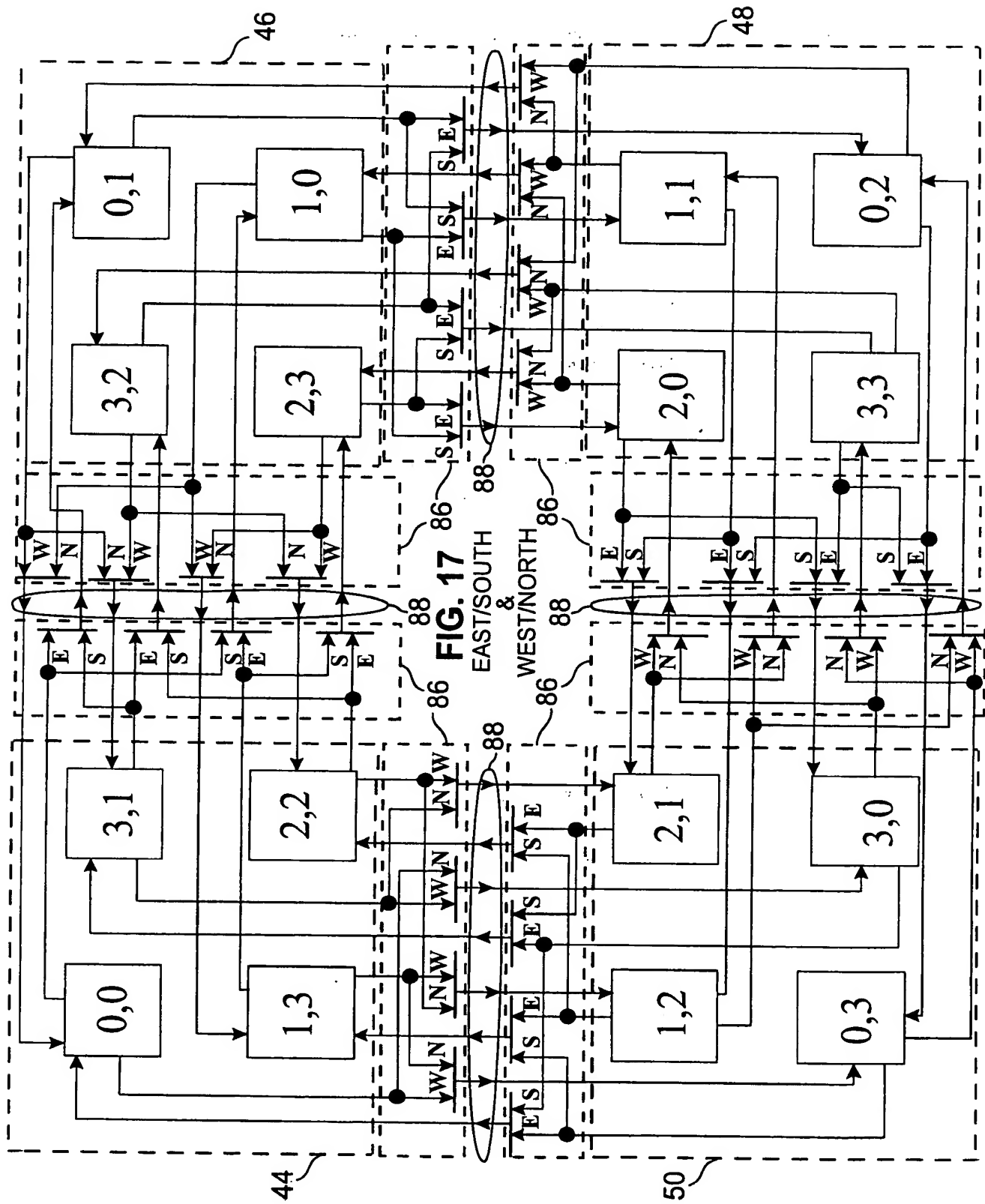


FIG. 15D





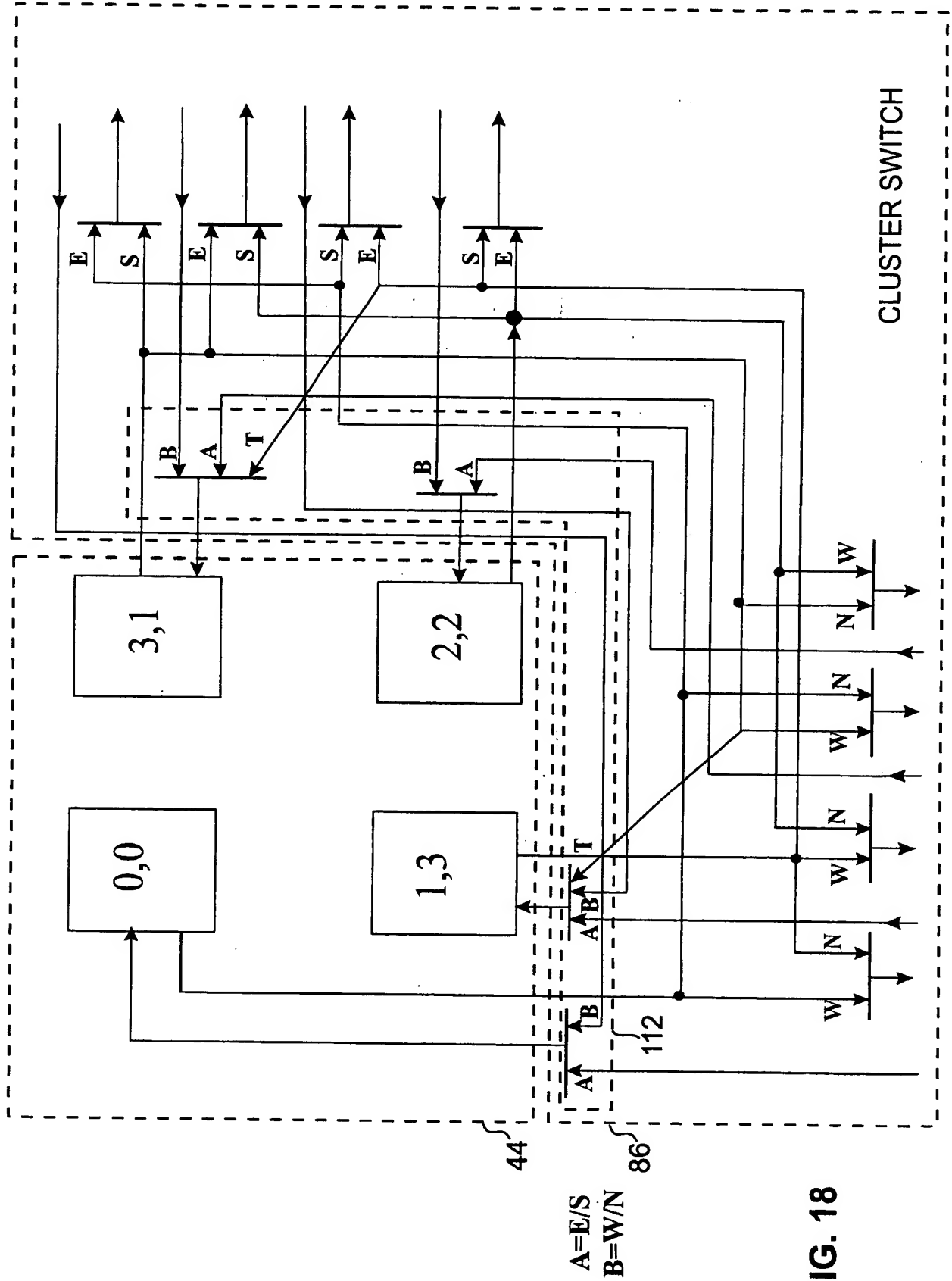


FIG. 18

$W_{0,0}$ $W_{0,1}$ $W_{0,2}$

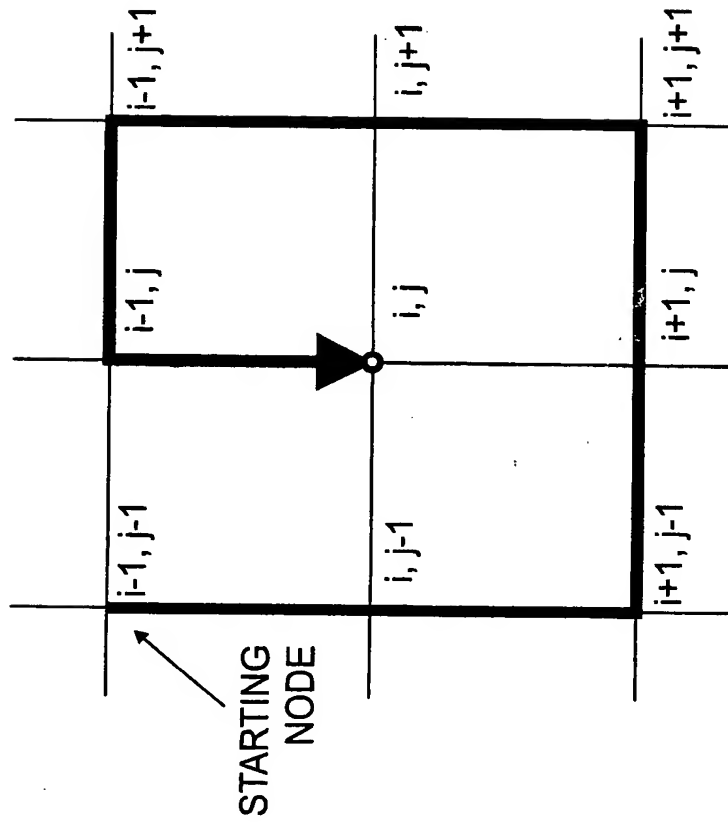
$W_{1,0}$ $W_{1,1}$ $W_{1,2}$

$W_{2,0}$ $W_{2,1}$ $W_{2,2}$

CONVOLUTION WINDOW

FIG. 19A

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CONVOLUTION PATH FOR NODE i, j

FIG. 19B

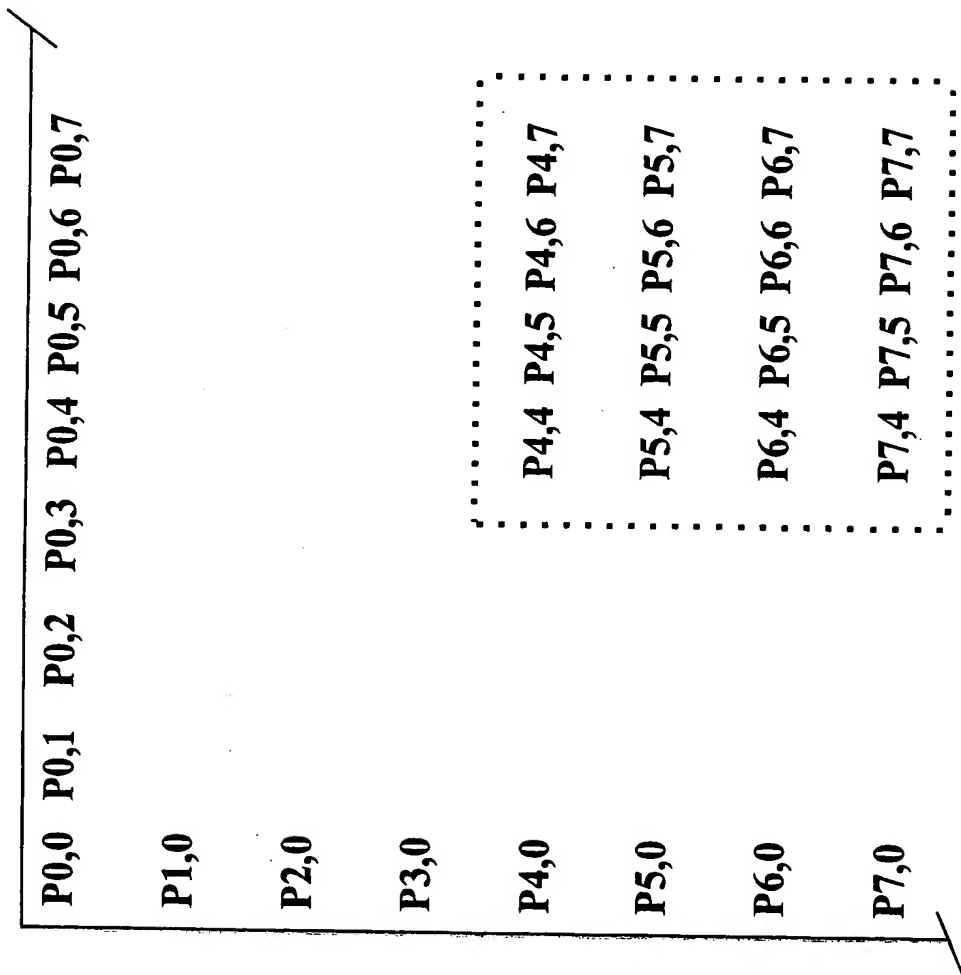


FIG. 19C

0,0 P4,4	0,1 P4,5	0,2 P4,6	0,3 P4,7
1,0 P5,4	1,1 P5,5	1,2 P5,6	1,3 P5,7
2,0 P6,4	2,1 P6,5	2,2 P6,6	2,3 P6,7
3,0 P7,4	3,1 P7,5	3,2 P7,6	3,3 P7,7

FIG. 19D

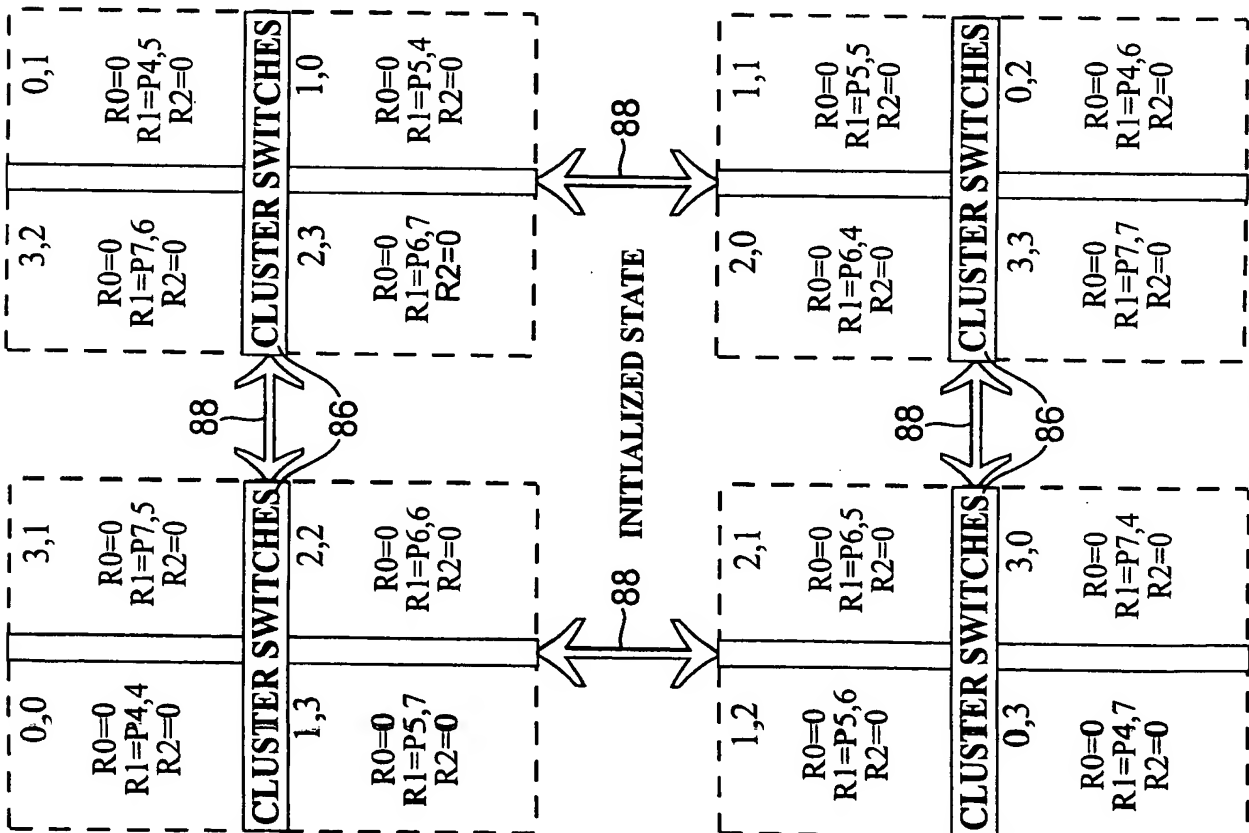


FIG. 20A

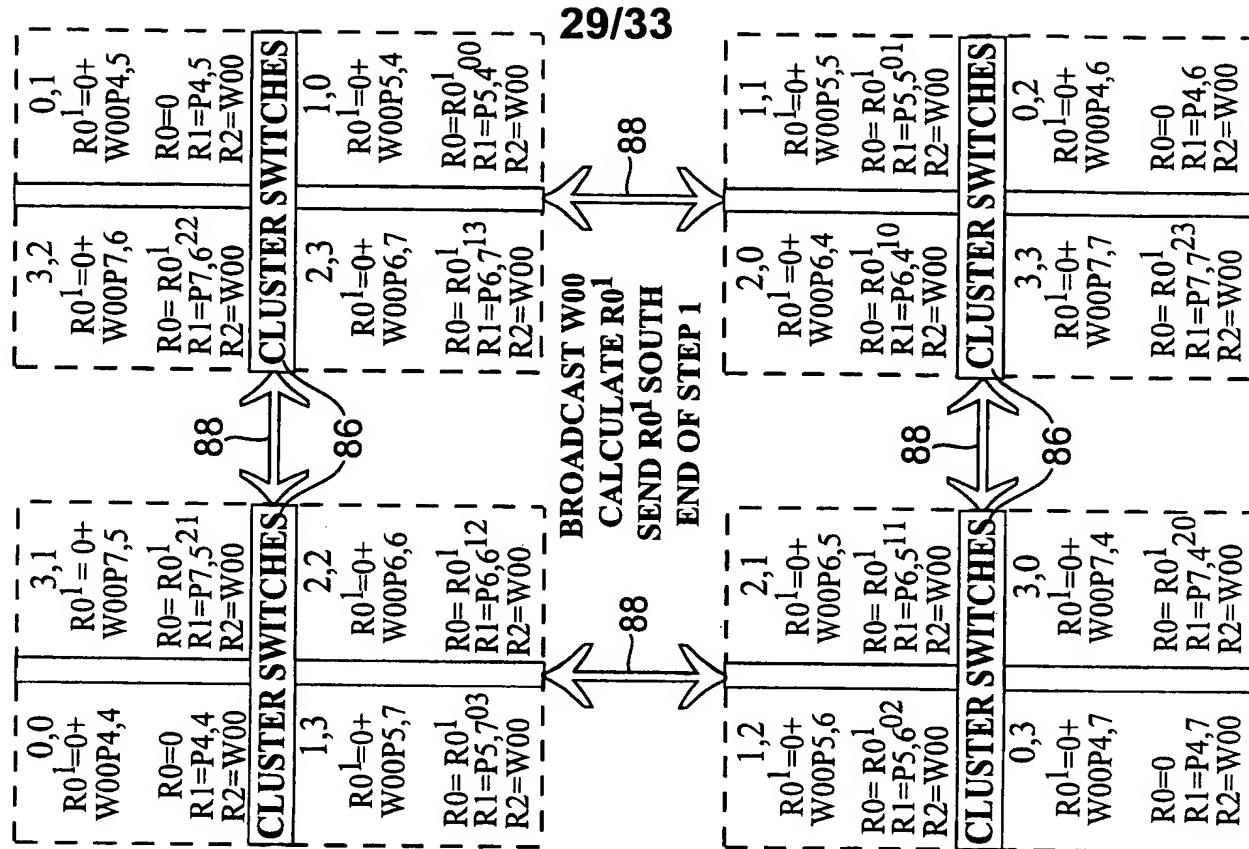
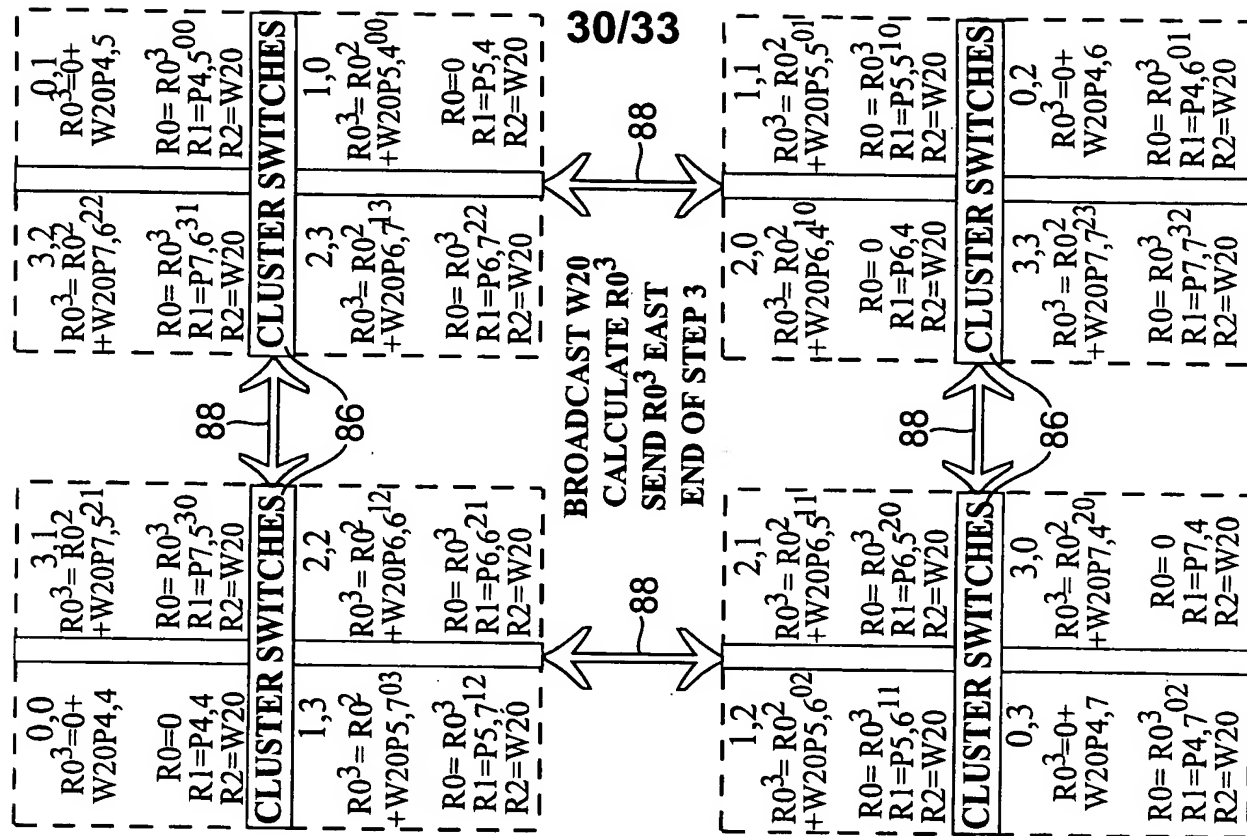
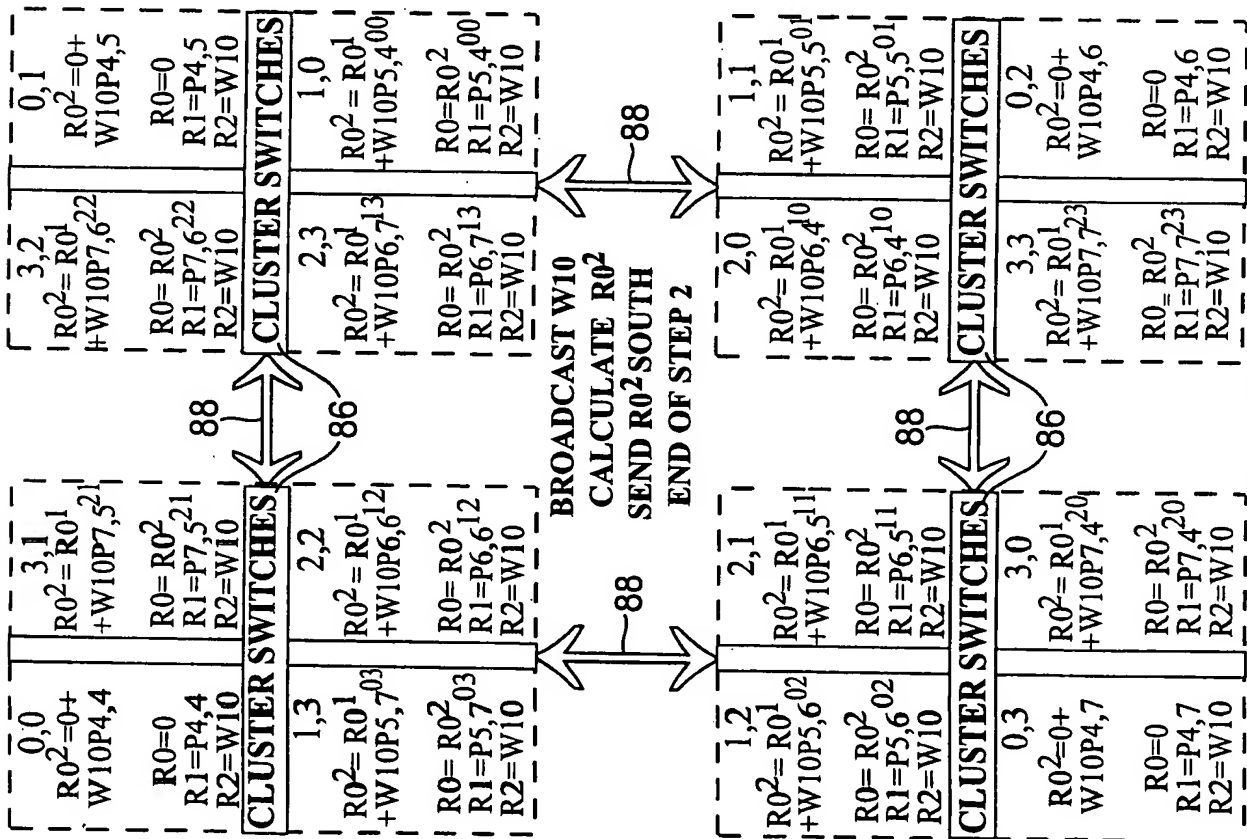


FIG. 20B



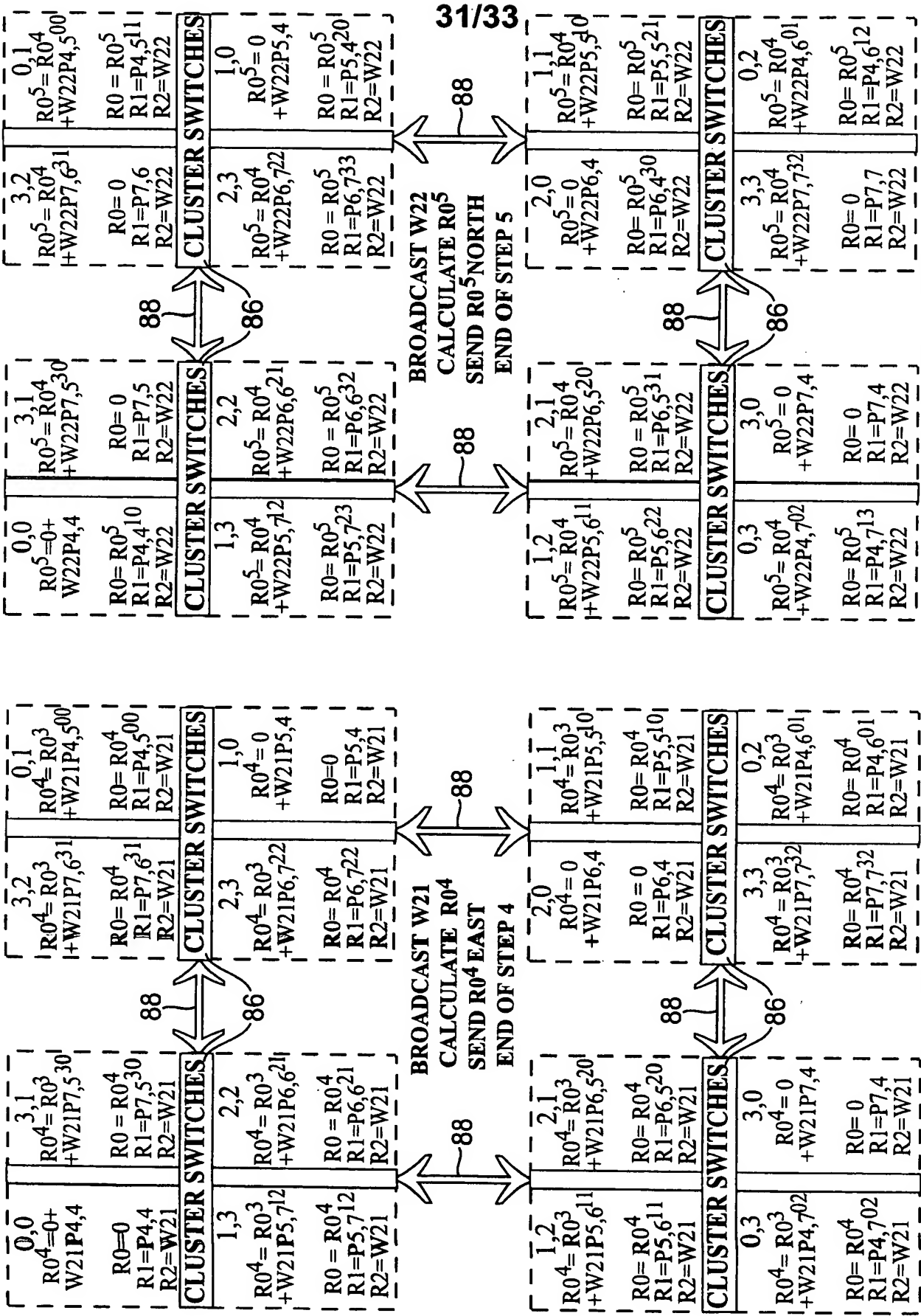


FIG. 22A

FIG. 22B

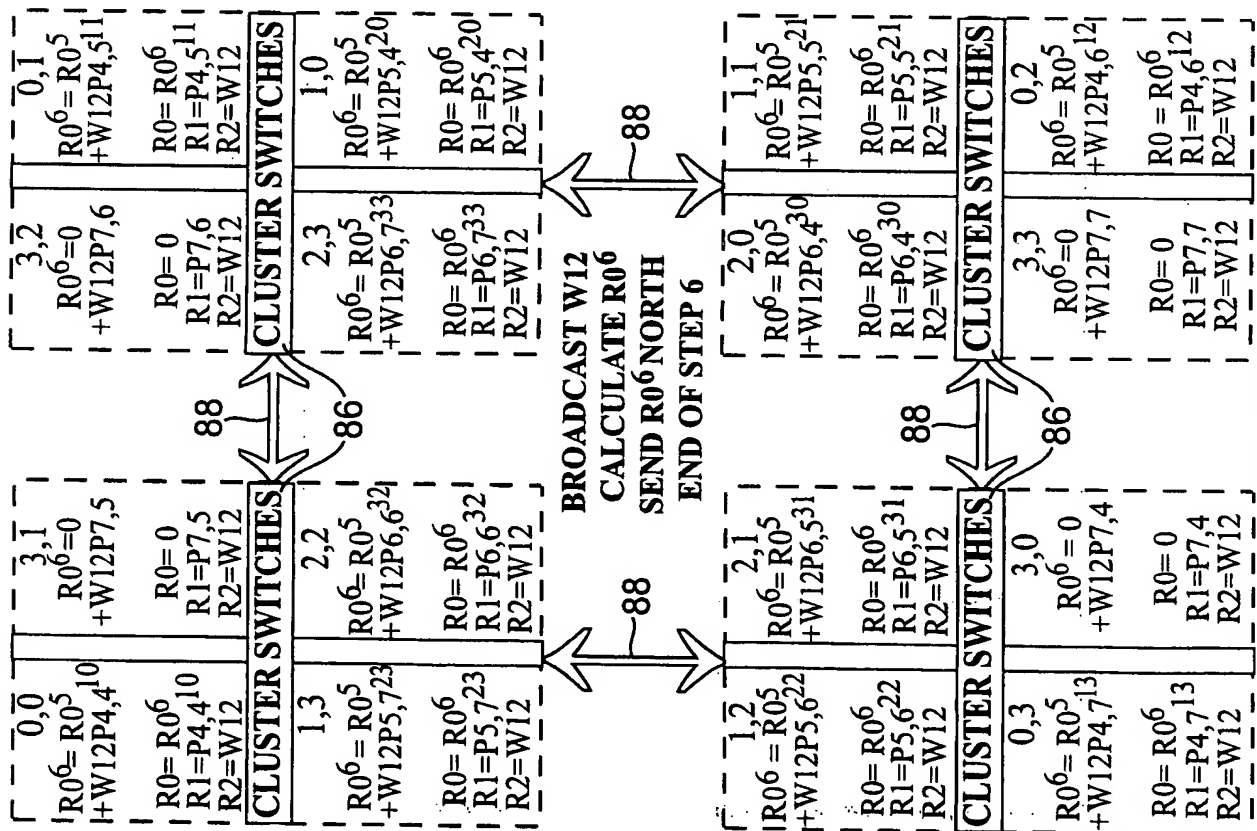


FIG. 23A

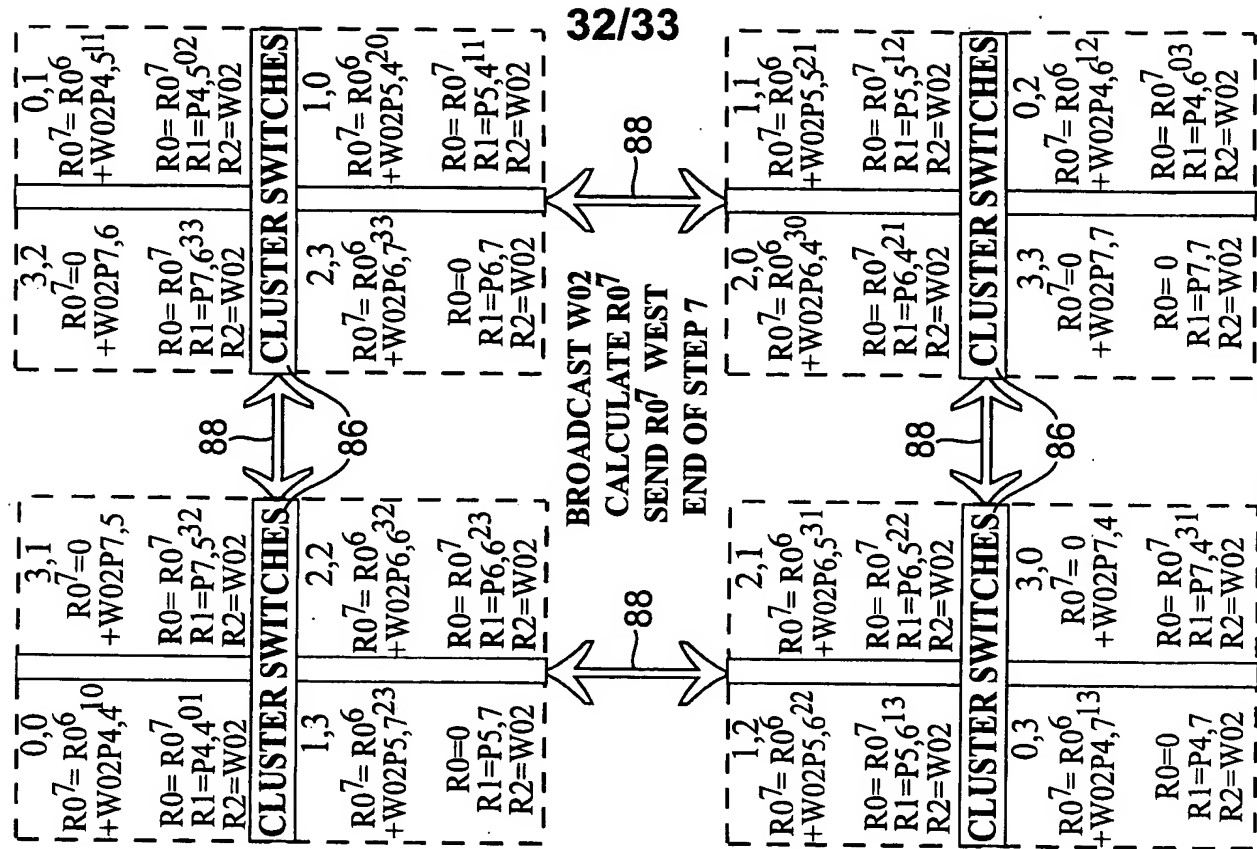


FIG. 23B

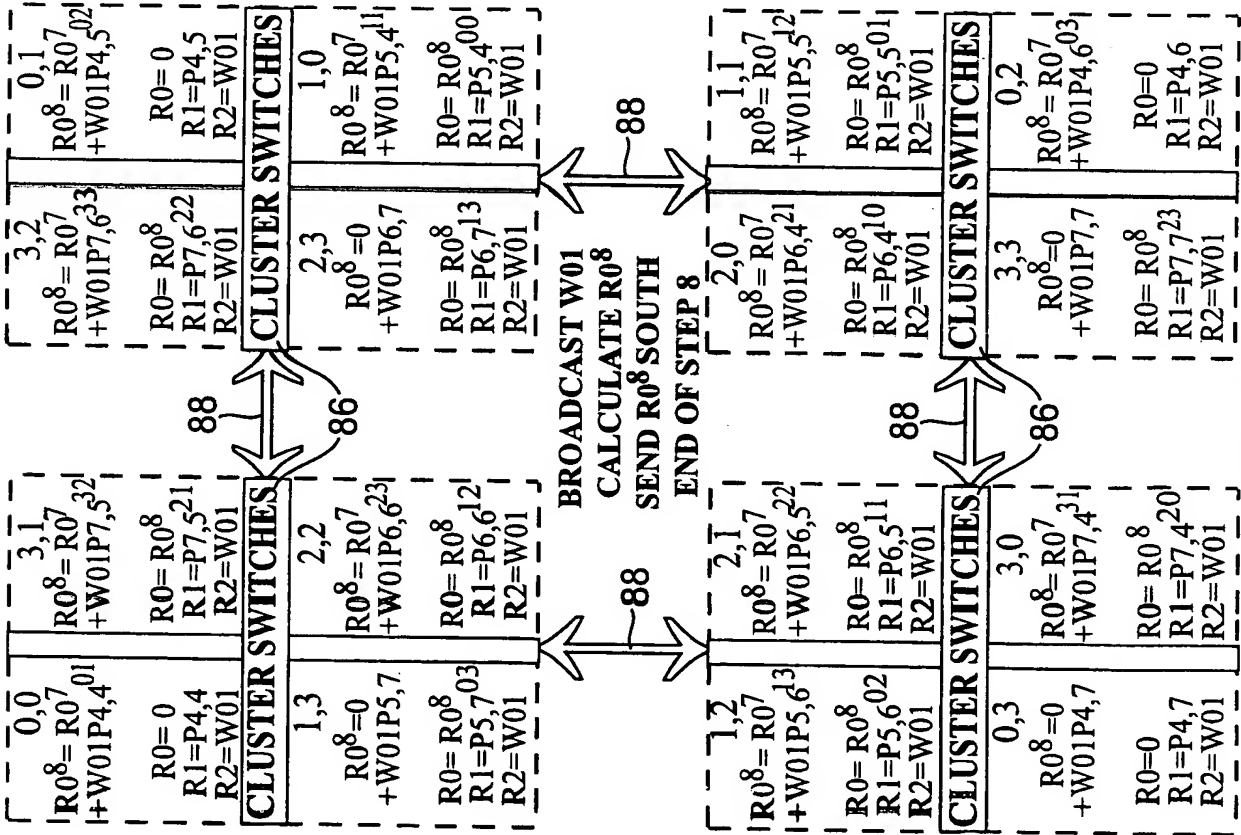


FIG. 24A

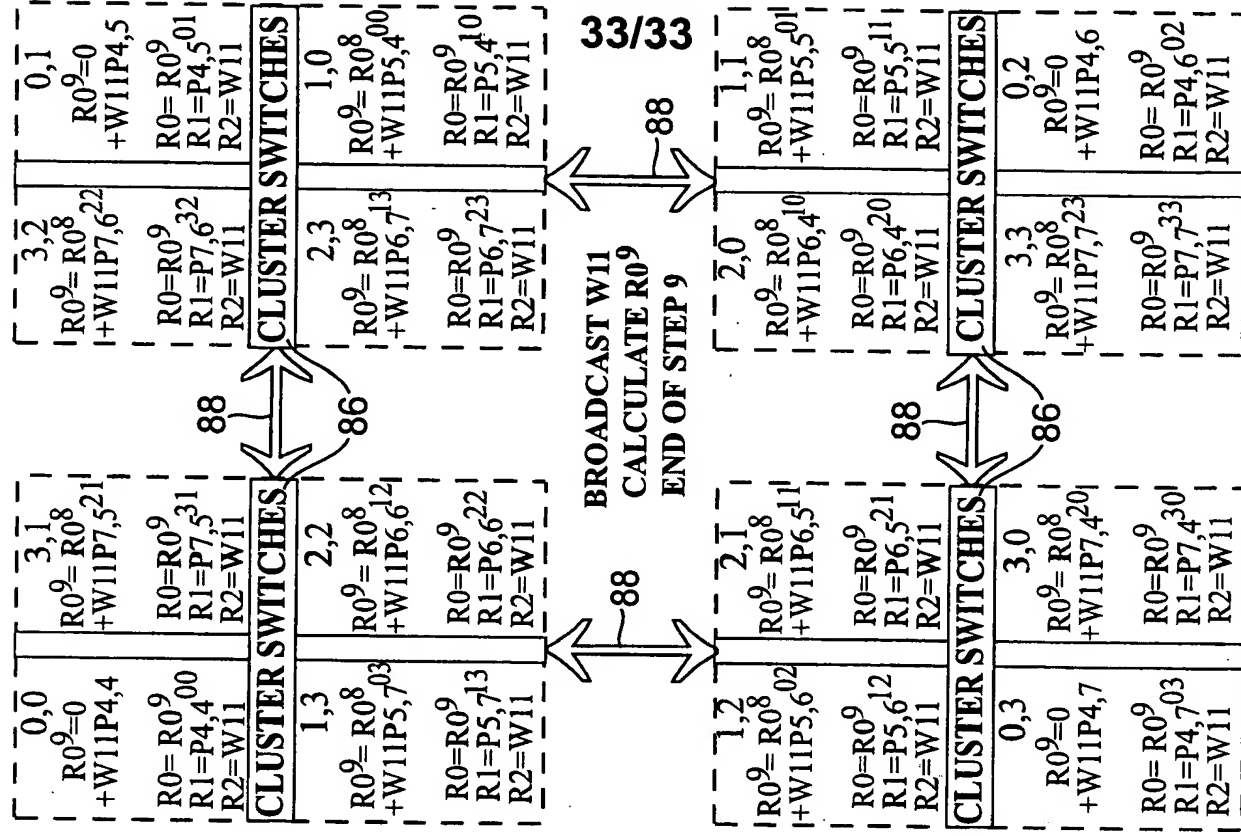


FIG. 24B